PageID: 39685

EXHIBIT F

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	Page 1
Exhibit	IN THE DISTRICT COURT OF THE UNITED STATES
5	FOR THE NORTHERN DISTRICT OF OHIO
3	EASTERN DIVISION
4	X
5	IN RE:
6	MDL DOCKET NO. 1535 : Case No. 1:03 CV 17000
7	WELDING ROD PRODUCTS : Judge Kathleen O'Malley
8	LIABILITY LITIGATION :
9	X
10	Videotaped deposition of JON PETER FRYZEK, Ph.D.
11	Baltimore, Maryland
12	Tuesday, February 8, 2005
13	9:15 a.m.
14	Job No.: 22-50687
15	Pages: 1 - 321
16	Reported by: Beatriz D. Fefel, RPR
17	
18	
19	
20	
21	
22	
23	
24	
25	

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•	Dase 1.03-6V-17000-14MG Bootiment
	Page 2
1	Videotaped deposition of JON PETER FRYZEK
2	held at the law offices of:
3	
4	McCARTER & ENGLISH, L.L.P.
5	300 East Lombard Street
6	Suite 1000
7	Baltimore, Maryland 21202
8	(410) 659-8500
9	
10	
11	Pursuant to agreement, before Beatriz D.
12	Fefel, Registered Professional Reporter and Notary
13	Public of the State of Maryland.
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

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		Page 3
1	APPEARANCES	
2		
3	ON BEHALF OF THE PLAINTIFFS:	-
4	JIM CROSBY, ESQUIRE	
5	CROSBY SAND	
6	6404 Hillcrest Park Court	
7	Mobile, Alabama 36695	
8	(251) 476-3000	
9		
10	ON BEHALF OF THE DEFENDANT GENERAL ELECTRIC	
11	COMPANY:	
12	NATHAN A. SCHACHTMAN, ESQUIRE	
13	ERIKA J. DOHERTY, ESQUIRE	
14	MCCARTER & ENGLISH, L.L.P.	
15	1735 Market Street	
16	Mellon Bank Center, Suite 700	
17	Philadelphia, Pennsylvania 19103-7501	
18	(215) 979-3800	
19	ÄND	
20	LUTHER L. HAJEK, ESQUIRE	
21	SPRIGGS & HOLLINGSWORTH	
22	1350 I Street, Northwest	
23	Washington, D.C. 20005	
24	(202) 898-5800	
25		
		والمعارفة والمنافذة والمعارفة والمعارفة والمعارفة والمعارفة والمعارفة والمعارفة والمعارفة والمعارفة والمعارفة

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	2 1:03-cv-17000-KMO Document 1862-4 1 1164 667677266 5
1	APPEARANCES (CONTINUED)
2	
3	ON BEHALF OF THE DEFENDANT MABSCOTT SUPPLY:
4	MATTHEW A. KELLY, ESQUIRE
5	CAMPBELL, WOODS, BAGLEY, EMERSON, MCNEER &
6	HERNDON, P.L.L.C.
7	517 Ninth Street
8	Suite 1000
9	Huntington, West Virginia 25719-1835
10	(304) 529-2391
11	
12	ON BEHALF OF THE DEFENDANT SELECT ARC:
13	RICHARD M. EDMONSON, ESQUIRE
14	ARMSTRONG ALLEN
15	4450 Old Canton Road
16	Highland Bluff North, Suite 210
17	Jackson, Mississippi 39211
18	(601) 713-1192
19	
20	
21	
22	
23	
24	
25	
23	

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1	APPEARANCES (CONTINUED)
2	TOTAL MODES
3	ON BEHALF OF THE DEFENDANTS ILLINOIS TOOL WORKS,
4	INC., AND MILLER ELECTRIC MANUFACTURING COMPANY:
5	HUBERT O. THOMPSON, ESQUIRE
6	BROTHERS & THOMPSON, P.C.
7	100 West Monroe Street
8	Suite 1700
9	Chicago, Illinois 60603
10	(312) 372-2090
11	
12	ON BEHALF OF THE DEFENDANT METROPOLITAN LIFE
13	INSURANCE:
14	JOSE RAMON GONZALEZ-MAGAZ, ESQUIRE
15	STEPTOE & JOHNSON, L.L.P.
16	1330 Connecticut Avenue, Northwest
17	Washington, D.C. 20036-1795
18	(202) 429-8110
19	
20	ALSO PRESENT: Adam Lemnah, Videographer
21	
22	
23	
24	
25	

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			Page 6
1		C O N T E N T S	
2	EXAM	INATION OF JON PETER FRYZEK, Ph.D.	PAGE:
3		By Mr. Crosby	8
4		EXHIBITS	
5		(Attached to the transcript.)	
6	PLAI	NTIFF'S DEPOSITION EXHIBITS:	PAGE:
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8	2	Partial list of Fryzek publications	85
9	3	Danish questionnaire	119
10	4	7/20/04 Swedish study proposal	156
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13	7	Letter to Brandt-Rauf; reviewer	
14	•	comments and responses	191
15	8	Final paper	218
16	9	Hansen paper	222
17	10	Lung Cancer Mortality in Stainless Stee	el
18		and Mild Steel Workers	270
19	11	Fryzek Declaration	277
20	* *		
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25			approx of the control of

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	Case 1:03-cv-17000-RWO Boodiness
	Page 7
1	PROCEEDINGS
2	THE VIDEOGRAPHER: Here begins Tape No. 1 in
3	the deposition of John P. Fryzek, Ph.D., In Re: MDL
4	Docket No. 1535, Welding Rod Products Liability
5	Litigation, in the United States District Court for
6	the Northern District of Ohio, Eastern Division, Case
7	No. 1:03 CV, 17000. Today's date is February 8th,
8	2005, the time is 9:15 a.m. The video operator today
9	is Adam Lemnah of LegaLink Biloxi. This video
10	deposition is taking place at the office of McCarter &
11	English, 300 East Lombard Street, Suite 1000,
12	Baltimore, Maryland, 21202, and was noticed by Jim
13	Crosby, counsel for the Plaintiffs.
14	Will the counsel please identify themselves
15	and state whom they represent?
16	MR. CROSBY: I'm Jim Crosby. I represent
17	the Plaintiffs.
18	MR. THOMPSON: Hubert Thompson. I represent
19	Illinois Tool Works and Miller Electric.
20	GONZALEZ-MAGAZ: Jose Ramon Gonzalez-Magaz
21	of the law firm of Steptoe & Johnson on behalf of
22	Metropolitan Life Insurance Company.
23	MR. KELLY: Matthew Kelly on behalf of
24	Mabscott Supply Company.
25	MR. HAJEK: Luke Hajek of Spriggs &

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	Case 1:03-cv-17000-kivio Boodinent 1992
	Page 8
1	Hollingsworth on behalf of General Electric.
2	MR. EDMONSON: Richard Edmonson on behalf of
3	Select Arc.
4	MS. DOHERTY: Erika Doherty on behalf of
5	British Oxygen and other companies.
6	MR. SCHACHTMAN: Nathan Schachtman, McCarter
7	& English, also on behalf of British Oxygen, Lincoln
8	Electric, and other companies.
9	THE VIDEOGRAPHER: The court reporter today
10	is Bea Fefel of LegaLink Biloxi. Will the reporter
11	please swear the witness?
12	
13	JON PETER FRYZEK, Ph.D.
14	having been duly sworn, testified as follows:
15	THE VIDEOGRAPHER: Please begin.
16	EXAMINATION BY COUNSEL FOR THE PLAINTIFFS
17	BY MR. CROSBY:
18	Q Would you state your name, please, for the
19	record?
20	A My name is John Peter Fryzek.
21	Q And where do you live?
22	A I live in Gaithersburg, Maryland.
23	Q And what do you do?
24	A I'm a research scientist.
25	Q Are you employed?
	The state of the s

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	Page 9
	1 2
1	A Pardon me?
2	Q Are you employed?
3	A Yes.
4	Q Where are you employed?
5	A I'm employed through the International
6	Epidemiology Institute in Rockville, Maryland, and
7	Vanderbilt University in Nashville, Tennessee.
8	MR. SCHACHTMAN: Can we just stop for a
9	moment, Mr. Crosby? And I'm just going to address the
10	people on the phone.
11	If people come on and drop off, we're going
12	to drop you off. It's very distracting to the witness
13	and the examiner and everyone else in the room, and so
14	if you're here and you want to listen, you're welcome
15	to listen, otherwise we're just going to disconnect.
16	BY MR. CROSBY:
17	Q Have you ever given a deposition before?
18	A Never.
19	Q Have you ever testified in court before?
20	A No.
21	Q Okay. Has anybody explained to you how
22	depositions proceed generally?
23	A Yes.
24	Q Okay. Let me give you sort of my version,
25	and if I say anything that disagrees with what you

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	Page 10
1	understand, let me know because I want to be sure we
2	start off on the same page. Okay?
3	A Okay.
4	Q I represent Plaintiffs and I am here to take
5	your deposition by asking you questions. And I then
6	want you to answer the questions to the best of your
7	ability under oath. Do you remember being sworn?
8	A I remember.
9	Q All right. If I ask you a question and you
10	don't understand the question or any part of it,
11	please let me know. All right?
12	A Umh-humh.
13	Q Another thing that's important is that
14	although we have this videographer here who will do an
15	excellent job, is for you to please answer audibly
16	yes, if your answer is in the affirmative, and audibly
17	no, if your answer is in the negative, because
18	umh-humh and hunh-unh can sometimes get misunderstood
19	by this lady who is also an excellent person that
20	writes what we say down. But to avoid any problem
21	with that, I'd ask that you answer audibly and not
22	shake or nod your head, but to give a clear yes or no
23	when the answer suits that. All right, sir?
24	A Yes.
25	Q Now, if I ask you a question and you do not

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	Page 11
1 2 3 4 5 6	understand that question or any part of it, please let me know for an important reason. If you answer the question it's going to be taken that you understood it and you answered it to the best of your ability under oath. All right, sir? A Yes. Q Did I say anything there that disagrees with anything that you understood as to how things would
8 9 10	proceed? A You did not say anything that disagrees with
11 12 13 14 15 16 17 18	what I understand. Q All right. Another point that I want to emphasize with you that is this is sort of an open- book test. In other words, I want to know what you know, and I'm not trying to get you to tell me something you don't know, but if there is a document or some information from some source that you need in order to answer to the best of your ability under
19 20 21 22 23 24 25	A Yes. Q Have you given video conferences before? A No, I've never given a video. Q Okay. Have you ever done any sort of rehearsed for video conferences or presentations for

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Page 12 A No, I haven't. Q All right. So this will be your first occasion in front of a camera other than a, maybe home 4 videos or something like that?	
2 Q All right. So this will be your first 3 occasion in front of a camera other than a, maybe home	
5 A Yes.	2 3 4
Q I know that they sometimes make me feel uncomfortable. If it's giving you a problem with focusing and giving answers, please let me know. A Okay. Decause it's important that we get your best	
answer under oath. A (Nodding.) Q You also have a right, if you wish, when this is over with, this lady will type up what everybody in here says whenever we're on the record and put it in a neat little booklet, and you can read what she has typed up and check that to see that she has typed up what you best recall having said, and if you see something there that looks like either she misunderstood or you misspoke, you can make a note in the back on an errata sheet to make any adjustment. Is that something you want to do? Or you have a right to waive it. A That's something I want to do.	

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1	Are you on any kind of medication?
2	A Yes.
3	Q Okay. Is it any kind of medication that
4	will in any way impact your ability to understand the
5	that Tim asking?
6	No. it won't.
7	O Will it in any way impact your ability to
8	hatewor you may need to recall in order to
	10
10	A No, it won't.
11	mill it impact your ability to speak?
12	7 NO.
13	O So insofar as and tell me if I'm wrong.
1	and the spother thing. Anytime I'm asking you
1	- wastions and I've got something wrong, just say, you
1	Tim you've misunderstood or you got it wrong.
	numberstand it, you're clear-headed and recr
	8 fully competent to understand and answer questions
	9 under oath.
	A Yes.
	O Okay. You've been identified as an expert
	threes that may be called in some cases involving
	Have you ever been retained
	welding fod fielger 23 welding fod fielger 24 as an expert with the potential of being a witness in
	25 any litigation?
'	

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C	Case 1:03-cv-17000-KMO Document 1862-4 Tiled 66/67/200
	Page 14
1	A No.
2	Q Did you have any involvement as a consultant
3	in any litigation where you would not be called as an
4	expert?
5	A Yes.
6	Q And without at this point revealing
7	particulars as to whom, what litigation have you been
8	turnely od in?
9	A You mean in terms of areas of litigation,
10	or
11	Q Yes, sir.
12	A One case was around the Superfund site, and
13	then on another case about dioxin.
14	Q Is that while you were employed at IEI?
15	A One was at IEI, the dioxin case was.
16	Q And where were you on the Superfund event?
17	A University of Michigan.
18	Q Which side had retained you in the Superfund
19	event?
20	A I think it was the defense.
21	Q And what about in the dioxin?
22	A Defense.
23	Q Did you have any role with respect to breast
24	implant litigation?
25	A No, none at all.
- 1	

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C	Case 1:03-cv-17000-KMO	Document 1862-4 Fried 00/07/2000
		Page 15
1	Q Did IE	[?
2	A II does	s, yes.
3	Q You ca	ll it IE, or EI, or what? So we'll be
4	on the same page	• **
5	A IEI.	i mation?
6	Q Okay.	And is IEI a Maryland corporation?
7	A Yes.	
8	Q Is it	a for-profit corporation?
9	A Yes, i	
10	Q Are yo	ou a shareholder?
11	A No.	de vou know?
12	Q Who ar	re the shareholders, do you know?
13		't know.
14	Q Who as	re the principals?
15	A Docto	r William Blot, B-L-O-T, and Joseph
16	McLaughlin.	d in this
17	Q When	were you first retained in this
18	litigation?	of welders last
19	A I beg	an working on the study of welders last
20	January, but in	terms of being retained to testify it
21	was, I think, D	December, November/December of last
22	year.	wake sure I understand.
23		ack in let me make sure I understand.
24.	A Umh-l	
25	Q Janua	ary of '04, about a year ago?
1		

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	Page 16
1	A Yeah.
2	Q You began some research with respect to
3	welding?
4	A Right.
5	Q And later of last year, November or
6	December, you were retained as an expert?
7	A Right.
8	Q When did you first have any discussions with
9	any lawyers that represent Defendants in the welding
10	litigation?
11	A I think the first time was last, it was
12	either July or August, after we completed the study.
13	Q And when did you first have any discussions,
14	if ever, with anybody connected with the welding rod
15	industry?
16	A Other than lawyers?
17	Q Yes. A I've never discussed anything with anyone
18	
19	other than lawyers. Q Okay. What about any of the other personnel
20	Q Okay. What about any of the welding at IEI, when were they first approached by the welding?
21	at IEI, when were they first approach.
22	rod manufacturers or their lawyers about consulting? A I'm not exactly sure of the date. I know on
23	A I'm not exactly sufe of the proposal that we wrote there was a date on that.
24	the proposal that we wrote there they then they then they then they then they they they they they they they they
25	But prior to that time I don't know.

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Page 17
1 Q So the proposal for the, shall we call it
2 the Danish study?
3 A Yes.
A Res. A Res.
4 Q As lar us 1 5 contact between anyone with IEI and anyone with the
6 welding manufacturing industry?
7 A To my knowledge, yes.
7 8 Q Okay. So you're not saying that there
8 Q Okay. So your growth of the only part growth of wasn't contact before that, that's just the only part
10 you know about?
10 you know about: 11 A I'm saying, yeah, I don't know about other
12 contacts.
12 contacts. 13 Q So, for example, Mr. Blot or is he a
14 doctor?
A Doctor Blot, yes.
15 Q Is he a medical doctor, or a Ph.D.?
17 A Ph.D.
17 A Philoton McLaughlin, is he a medical 18 Q And Doctor McLaughlin, is he a medical
19 doctor, or a Ph.D.?
20 A Ph.D.
20 A Ph.D. 21 Q Do you know if either of them at any time 21 tolding rod manufacturers
21 Q Do you know 22 22 had any discussions with any welding rod manufacturers 23 the proposal in 2004?
22 had any discussions when I 23 or lawyers prior to the date of the proposal in 2004? 24 No. The first time I heard about it was
24 A No. The first time I heard document
25 with the proposal.

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	Page 18
1 Q Right. I und	derstand that's when you first
1 Q Right. 1	don't know if Doctor Blot or
war anghlin had (other discussions?
T have no ide	
a and you don't	t know whether or not is
C Postor Garabrant with	IEI?
He's affilia	ted, but he's, he's not housed
7 A He's allillad 8 there. I don't think	we don't even fund him, He's
a not housed at IEI. We	don't fund him.
O By you don't	fund him, what does that mean:
A He doesn't t	ake any salary from us.
o Okay. But i	s he on your website?
Yeah. I thi	ink, yeah, I think he is.
14 Q So of the pe	eople that are on your website
A Umh-humh.	_
16 Q which one	es are funded by IEI?
17 A There's Doc	tor Blot; Doctor McLaughlin;
18 Doctor Boice, John Bo	ice; Doctor Robert Tarone;
19 myself; Lisa Signorel	lo, Doctor Lisa Signorello;
20 Ms. Binni Chadda; Mar	k Steinwandevl; Sarah Cohen; Mike
21 Mumma.	1.5- 52002
22 Q How do you	spell his last name?
$A \qquad M-U-M-M-A.$	That's it, that's it.
24 Q Are any of	those folks medical doctors?
25 A No.	

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	Page 19
1	Q And which ones have post undergraduate
2	degrees, either master's or Ph.D.?
3	A All of them except for Mark Steinwandevl.
4	Q And what's his level?
5	A Bachelor's.
6	Q Is it a BS?
7	A Yes.
8	Q And Doctor Blot, is his a Ph.D., or an
9	s.c.D.?
10	A Ph.D.
11	Q Doctor McLaughlin?
12	A Ph.D.
13	Q Boice?
14	
15	And Signorello is an S.C.D.
16	And Signorello 15 day O How many people are there if you know, in
17	anable judgment, 11 you have said
18	don't guess.
19	A Okay.
20	O Q How many people are there affiliated with
2	IEI who are, as you put it, unfunded? A To my knowledge, I can think of three at
2	-
2	3 this time.
2	Q Okay. And who are they? A Doctor Garabrant, Mr. Marano, and Doctor
2	Doctor Garabrant, Mr. Marane,
1	The state of the s

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1	Robert Weiss.
2	Q Who is Doctor Weiss?
3	A I believe he is a psychiatrist. I may have
4	his name incorrect.
5	Q Okay. The unfunded individuals, what is
6	their role with IEI?
7	A We collaborate with them on some projects.
8	Q What does that mean?
9	A Sometimes if we have a proposal to do
10	something and they can bring some expertise to the
11	project, we include them on the proposal.
12	what does Doctor I mean, excuse me, bon
13	Marano do?
14	A He's an industrial hygienist.
15	Q Did he work on the Danish study?
16	A No.
17	Q Did he propose any work on the Swedish
1.8	3 study?
19	A No.
20	Q Doctor Robert McLaugh is he a doctor, I
2	think you said?
2	2 A I think so, yeah.
2	What is his area?
2	4 A I'm not sure.
2	5 Q And Doctor Garabrant?
- 1	

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1	A Yeah.
2	Q What's his area?
3	A Occupational medicine.
4	Q Is he an M.D. and a Ph.D., or an M.D.?
5	A M.D.
6	Q So is he a certified epidemiologist, or is
7	he an occupational medical doctor who at times engages
8	in some areas of epidemiology?
9	MR. SCHACHTMAN: Objection to the form.
10	A It's my understanding he does both. He's an
11	occupational medicine physician and that he sees
12	matients and he also conducts epidemiological scale
13	Q Okay. Is he in any epidemiological
14	societies of which you are aware?
15	A I'm not aware of what societies he 3 in
16	Q How long have you known him?
17	A Since 1992, '93.
18	Q And what were the circumstances under which
19	you all met?
20	A I was his student for my Ph.D.
21	Q At the University of Michigan?
22	A Yes.
23	Q Did anyone else at IEI while you were a
24	student there have any affiliation with the University
25	of Michigan?
125	▼

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Page 22
A No.
Q I'm going by memory so I can really be wrong
now.
A Okay.
Q Where did you get your Ph.D.?
A Michigan.
Q And did you write a dissertation? Did they
call it a dissertation there?
A Yes.
Q And who was your faculty mentor or guide for
that, if anybody?
A Yeah. I had a committee, and the professors
on the committee, Doctor David Garabrant and Doctor
Sioban Harlow, were the chairs. Doctor David
Schottenfeld and Doctor Richard Severson and Doctor
Brenda Gillespie.
7 Q Prior to the date of the proposal for the
study done for the welding industry, the Danish study,
9 had you and Doctor Garabrant discussed welding
0 matters?
1 A No.
2 Q With whom, if anybody, had you had any
discussions about health effects of welding prior to
the welding proposal
No one.

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	Page 23
1	Q or the Danish study?
2	A No one.
3	A No one. Q Assuming that the proposal was in mid-2004,
4	and we'll get to it in a minute, but assume that it
5	was well
6	A It was probably 2003.
7	Q 2003?
8	A Umh-humh.
9	Q August 2003.
10	A Okay.
11	Q Is that what triggered you looking into
12	welding, was the proposal had been made and accepted?
13	Welding, was instructed to monitor the A Yeah, I was instructed to monitor the
14	project.
15	Q Okay. Who instructed you to do that?
16	A Doctor Bill Blot, my supervisor. Q By monitoring the project, what do you mean?
17	Q By monitoring the project, and a Going to Denmark and interacting with our
18	A Going to Denmark and Interest
19	collaborators and establishing study design and
20	analysis, and things like that. O So was it your job to make sure it was
2	1 Q So was it your job to many
2	right, done right as well as it could be? A Along with the other collaborators on the
2	3 A Along with the other correct
2	<pre>project. Who had overall responsibility for assuring</pre>
2	5 Q Who had overall responsible 1

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	Case 1:03-cv-17000-KMO Document 1862-4 Filed 06/07/2003
	Page 24
	that the Danish study for the welding industry was
	done correctly top to bottom?
1	A Doctor Jorgen Olsen.
	and who is that?
	He's the head of the Danish Department of
	6 Epidemiology at the Danish Cancer Institute in
	Gonenhagen, Denmark.
	8 Q And does he have any affiliation or
	9 associations with any industry?
	a No.
	O How long has he had that position?
-	n I have no idea.
- 1	Q Were you subject to his oversight?
	abaolutely, ves.
	A Absolutely, 1 So was everybody subject to his oversight?
	16 A Yes.
	16 And where does he reside or work?
	A Copenhagen, Denmark. 18 A copenhagen, Denmark.
	A Copenhagen, 20 And is he the person that would have all of
	the data that relates to the study?
,	20 the data that 2002. All of the data is in Copenhagen. 21 A Yes. All of the data is in Copenhagen.
	21 A Yes. All of the data ever been transferred or 22 Q Has any of the data ever been transferred or
	23 transmitted by any means to the U. S.?
	24 A No.
	24 A No. 25 Q Did you have access to any of the data?

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C	ase 1:03-cv-17000-KMO Document 1802-4 Filed 5-1
	Page 25
1	A While I was in Copenhagen I had access to
2	the data.
3	Q All of it?
4	A All of it. Actually, not all of it. Some
5	of it was summary data.
6	Q Okay. Who had the underlying data?
7	A Our Danish collaborators.
8	Q Did you ever have any access to the
9	underlying data?
10	That's a difficult question to answer
11	underlying data, I'm going to say the hospitalization
12	records, and I did not have access to those.
13	O Okay. Did you have any access to the
14	databases and information housed in databases
15	maintained by the various registries?
16	A I, I saw the databases, but I did not
17	manipulate them.
18	Q So you were unable or not allowed to
19	manipulate the databases?
20	A No, I it we had the analyst in Denmark
21	who was familiar with the databases who did the
22	manipulation.
23	Q And who was that?
24	A Her name is Andrea Bouts.
25	Q And whose oversight was she subject to?

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	C	ase 1:03-cy-17000-KMO Document 1862-4 Tiled 69/67/25
<u> </u>		Page 26
1	-	A Doctor Jorgen Olsen. Q Did you have any authority or right to see
2		Q Did you have any and how she manipulated the data what she was doing and how she manipulated the data
	3	to verify the accuracy of it?
	4 5	A I I'm sorry. I don't understand the
	6	
Ì	7	Q Okay. As I understand it, you got summary
	8	reports?
	9	A Correct. Q And as I understand it I've forgotten her
1	.0	I I
1	.1	last name. Andrea, was it? A Bouts.
-	L2	A Bouts. Q Bouts?
	L3 14	. Veah
-	15	Manipulated the data, and maybe I'm wrong,
	16	and from that I assume she generated the summary
	17	reports?
	18	A It was, it was actually a more complex
	19	process than that.
	20	Q Okay. A The original databases are housed in the
	21	A The original dataset Danish National Board of Health and Welfare, which is
	22	a governmental organization.
	23	How many databases are there?
	25	A They have I'm not sure. All of the
	I	

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	Case 1:03-cv-17000-KMO Document 1862-4 Filed 65/67/2001
	Page 27
1 2 3	Denmark is a nationalized medical care system and any type anytime you have contact with the medical system, that information is put in a database.
5 6 7 8	Okay. So are we talking tens of databases, or hundreds of databases, or thousands of databases? A Probably hundreds. But I'm not, I'm not certain, certain of the number.
9	of medical treatment
10	o is it entered into one of these databases
12	or registries?
13	Would that include hospitalizations:
15	and emergency room visits?
1	
1	8 Q And clinics?
1	9 A Yes.
2	9 A les. 0 Q Are there any private clinics for private
2	20 Q Are there and regular Danish person can just go
2	see their doctor?
2	22 see their doctor: 23 A It's my understanding there is for plastic
	surgeons. Q Okay. And is that in a registry?

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(Jase 1:03-cv-17	UUU-RIVIO BOGUITION 1992
		Page 28
1	A	That is not it's not in the governmental
2	registry.	
3	Q	So other than
4	A	I'm sorry. If they go to the public clinics
5	for plast	tic surgery, then it is in the registry.
6	Q	Are there any other private clinics in the
7	Danish me	edical system that you're aware of other than
8		lating to plastic surgery?
9	A	Not that I'm aware of.
10	Q	Have you done anything to ascertain whether
11	there are	e?
12	A	I, I my collaborators there tell me there
13	is not,	so I trusted their knowledge.
14	Q	Are any of them medical doctors?
15	A	Yes.
16	Q	Were any of them neurologists?
17	А	I'm not sure what their field of expertise
18	is.	to the for the
19	Q	So with respect to the Danish study for the
20	welding	industry, as I understand it, we don't know if
21	there wa	is anybody who was a trained neurologist
22	involved	l in it?
23	A	That's correct.
24	Q	Have you had any training in neurology?
25	Ä	No.
1		

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Ca	ase 1:03-cv-17000-KMO Document 1862-4 Filed 66/67/2005
	Page 29
1	Q Okay. How about movement disorders?
2	A No.
3	Q Do you have a personal diagnostic criteria
4	that you use with respect to determining whether or
5	not a person has Parkinson's disease?
6	A No.
7	Q How about Parkinsonism?
8	A No.
9	Q How about manganesium?
10	A No.
11	Q Had you ever had an occasion to witness
12	people being examined for a diagnosis of movement
13	disorders?
14	A No.
15	Q Did you have any occasion to see or discuss
16	with any of the people that were the subject of this
17	Danish study that were diagnosed with any sort of
18	movement disorder?
19	A No.
20	Q Did you see any of the people that were
21	involved in that study?
22	A No. It was a retrospective study.
23	Q And as I understand it, you didn't have
24	access to their identity to find out who they were
25	anyway, correct?
l l	

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Γ		Page 30
	1	A Correct. Q So, then, if someone wanted to do or if
	2	Q So, then, if someone wanted to
	3	you had wanted to do an independent verification on a
	4	random sample basis as to whether or not a living
	5	member of the group really did have Parkinsonism or a
	6	movement disorder, you would not have been able to do
	7	that; am I correct?
	8	A There was a verification of Parkinson's
	9	disease in the study. The Danes did go through a
	10	process where they verified the diagnosis of
	11	Parkinson's disease.
	12	Q Did they do that by seeing people, or did
	13	they do that by looking at records?
	14	A They looked at records.
	15	Q Did anybody look at people?
	16	A To my knowledge, no.
	17	Q And if you had wanted to look at people, you
	18	were not allowed access to the information to
	19	undertake that verification; is that correct?
	20	A Yes, that's correct.
	21	Q Was there anything to preclude the Danes
	22	from doing an independent verification by looking at
	23	the records, ascertaining the person's identity, and
	24	then following up that person?
	25	A I don't know.

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	Case 1:03-cv-17000-KMO Document 1862-4 Filed 00/01/2005
	Page 31
1	Q Is there a separate registry for
2	psychological disorders?
3	psychological disolders. A For psych I, I'm not sure. There might
4	be. O Was there would it be excuse me. If
5	Q Was there would re to there is such a registry for psych let's call it there is such a registry for psych let's call it
6	there is such a registry root is there one for that? psychiatric disorders, too, was there one for that?
7	Thave not used 19.
8	To there is, would it maintain records of
9	neuropsychological disorders or diagnoses, or do you
10	
	r have no idea.
12	a are you familiar with whether or not there
1	that indicate that Parkinsonism of
	4 are studies that income a studies that inc
	and signs?
	of those studies.
	O When was your first meeting with
	the welding industry:
	20 A I think it was last July, July 2004.
	21 Q And who was there? 22 A Oh, to be honest, I can't recall all their
	22 A Oh, to be honest, I can t love
	23 names.
	Q All right. A There was a lot of them.
	25 A There was a 100 or
- 1	

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Case 1:03-cv-17000-KMO	Dodamen
Cubb Mark	Page 32
1 Q Which	n ones can you recall? Schachtman was there, Ralph Davies.
That's all I re	ecall.
4 Q Abou	t how many of them were there?
_ A Mayb	e eight.
O Oh,	shoot. That's a small group for them.
7 A Yeah	. However bigger our conference room
8 was.	
9 MR.	SCHACHTMAN: Small by Plaintiff's
10 standards, too	o.
11 Q What	about do you have any notes or
12 records of tha	at?
13 A No.	tont any Minutes of
14 Q Do 3	you know if anybody kept any Minutes of
15 it?	1 - 100
	to my knowledge.
17 Q And	what all was discussed? study had been completed at that time
18 A The	hem an overview of what the study said.
120	elf and Doctor Blot.
	what did you all tell them?
- LE	e study results.
23 A The	d how did you all put it at that point?
	don't understand.
25 A I C	JOIL C. MIGGEOGRAPH

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	Case 1:03-cv-17000-KMO Document 1002 4
	Page 33
1	Q Well, when you told them what the results
2	were, what were your words insofar as you recall?
3	A I don't recall my exact words.
4	Q They don't have to be exact, just your best
5	recollection of what you recall having said when you
6	summarized the study.
7	A You know, I don't recall my exact words.
8	I'm sure I talked about the results as they're in the
9	tables in the paper.
10	Q At that point had it been accepted for
11	publication?
12	A At that point it had not.
13	Q At that point had it been submitted to
12	publication?
1!	A No, it hadn't, it had not.
1	Did you distribute copies of the report?
1	A Among the collaborators on the project we
	- 1! 3
	Okay What about at the presentation -
1	O A No.
	1 Q to the lawyers?
	2 A No.
	2 Where was that presentation?
	7 In our offices.
	24 A The State of Power Point, or 25 Q Was it done by slide, or Power Point, or
'	

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		Page 34
1	what?	
2	A	No.
3	Q	How was it done?
4	A	Verbally.
5	Q	So you explained a table without any kind of
6	visual a	id?
7	A	We had a piece of paper that we showed them
8	what the	results were.
9	Q	Did you put it on an overhead?
10	A	No.
11	Q	Okay. Do you have a copy of the piece of
12	paper th	at you showed them?
13	А	I, I don't think so.
14	Q	Where would that have gone?
15	A	Into the table in the paper. The numbers
16	have not	changed in the tables since that time.
17	Q	Have your tables changed?
18	A	No.
19	Q	And this is a pre-submission table?
20	A	Yes.
21	Q	How many times did you present this paper
22	for pub	lication?
23	А	Once.
24	Q	And to whom?
25	A	You mean by journal?

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C	ase 1:03-cv-170	
		Page 35
1	Q	Yes, sir.
2	А	To the Journal of Occupational Environmental
3	Medicine.	ther journal?
4	Q	You didn't submit it to any other journal?
5	A	No.
6	Q	And did you get reviewer comments?
7	A	Yes.
8	Q	Did it bring about changes?
9	A	Minor changes.
10	Q	But it did bring about changes?
11	A	Yes.
12	Q	Do you have a copy of the pre-change
13	article?	
14	A	No.
15	Q	So you don't have a copy of the original
16	submissi	on?
17	A	I'm sure the journal does, but we don't. Do you have any problem with us getting a
18	Q	
19	copy of	it?
20	A	No. I understand you cannot recall what you
21	Q	I understand you cannot reduce a solution of the solution of t
22	said. I	o you remember what Mr. Brook
23	said?	a la
24	A	At what time? At the meeting in around July of 2004
25	Q	At the meeting in around said
		the state of the s

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	Case 1:03-cv-17000-KMO Document 1002
	Page 36
1	with the lawyers.
2	A I, I don't know specifically. I don't
3	remember specifics of that meeting.
4	Q So I just want to be sure I'm understanding
5	what you're saying.
6	A Yeah.
7	Q Well, let me back up.
8	Have you ever had a meeting with eight
9	lawyers before?
10	A No.
11	Q Had you ever had a meeting where you
12	presented the findings of results of a study to
13	lawyers who represent the people who funded the study?
14	A No.
15	Q And as I understand what you're telling me,
16	is that that presentation, which was about six months
17	ago
18	A Umh-humh.
19	Q you don't remember the gist of what you
20	said or what Mr Doctor Blot said?
2	
2	what was in the tables.
2	what was in the sall you can remember that you did And that's all you can remember that you did
2	
2	5 preliminary results

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Ca	ase 1:03-cv-17000-KMO Document 1862-4 Triba 35/5/
	rage 3/
1	A Right.
2	Q is that correct?
3	A It was a short meeting.
4	Q How short?
5	A Maybe an hour, maybe.
6	Q Did they have any questions?
7	A No, not that I recall.
8	Q Or any comments?
9	A I can't remember specific comments. They
10	may have said some comments.
11	may have said some Q Anything that related to the nature of the
12	study, either how it was conducted, what the contents
13	of what you all had said about the study?
14	A NO.
15	Q Okay. So you were in a room with eight
16	lawyers for an hour?
17	A Umh-humh.
18	Q And you don't recall any of them asking a
19	question?
20	A I don't.
21	Q And you don't recall any of them having
22	comments about a study that you all made
23	a t don't recall specific comments.
24	Q Do you recall any general comments, or the
25	gist of any comments?
1	

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	Page 38
	A Other than they were that the study was a
1	
2	good study.
3	Q They thought it was a good study?
4	A I did, too.
5	Q I see. Did you design the study?
6	A The study was designed by Doctor Blot.
7	Q Did you have any input in the design of the
8	study?
9	A Not in the design, no.
10	Q Did you have any input with respect to the
11	study at all other than oversight?
12	A Yes, I did.
13	Q And what was that?
14	A I designed the statistical analyses and I
15	also wrote the original drafts.
16	Q How many drafts were there?
17	A I don't recall.
18	Q Do you still have those on your computer?
19	A No.
20	Q Does IEI still have them?
21	A No.
22	Q Do any of your Danish collaborators or any
23	collaborators have them?
24	A I don't know. They may have.
25	Q Do you have any problem with us having
1	

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Page 39 copies of those? 1 If they exist. Our policy is not to keep 2 drafts. 3 I would renew my request for MR. CROSBY: 4 that sort of information, please. 5 MR. SCHACHTMAN: I'll take it under 6 advisement. 7 MR. CROSBY: As well as for the initial 8 submission to the journal. 9 MR. SCHACHTMAN: I don't mean to interrupt 10 you, Mr. Crosby. 11 That's okay. MR. CROSBY: 12 MR. SCHACHTMAN: But you do have -- I think 13 I provided to you the reviewer comments and the 14 proposed changes in response to the reviewer comments. 15 That probably defines the entire universe of changes 16 between the submitted draft and the accepted draft. 17 MR. CROSBY: I appreciate your assistance 18 there, and I do have that, but unlike some folks, I 19 wasn't in the meeting in July, and so that may be my 20 only way to find out. 21 BY MR. CROSBY: 22 And how long was it after the meeting that 23 the proposed publication was submitted? 24 Oh, I think it was first submitted in Α 25

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(Case 1:03-cv-17000-KMO Document 1662
	Page 40
1	August, late August or early September.
2	O is there a reason that you presented the
3	results to the group of lawyers before you submitted
4	it for publication?
5	a No.
6	Q Is that your usual practice, to submit a
7	paper to a funder or partial funder prior to
8	submitting for publication?
9	MR. SCHACHTMAN: Objection
10	A No.
11	MR. SCHACHTMAN: to the form.
12	Q What is your usual practice?
13	A As we state in our proposal and in our
14	contracts, that we publish results no matter what they
15	are
16	Q I understand that. But and what is your
17	usual practice with respect to whether or not you do a
18	presentation about a study before you submit for
19	hligation?
20	A Our usual practice is to give the funder the
21	final copy of the paper.
22	Q That is, as accepted
23	A Right.
24	Q by the publisher?
25	A Right.

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	C	ase 1:03-cv-17000-KNO Document 1992
		Page 41
<u> </u>	1	Q So normally you would submit the paper, have
:	2	it accepted by a publisher, go through the review
	3	process, make the changes, then when it is illustry
	4	aggorted by the publisher and you have the gailey
	5	proofs of what will be published, that is what you
	6	then submit
	7	A No.
	8	Q to
	9	A Typically we give them the first draft, the
1	LO	first, you know, the first submission to the journal.
	11	O Okay. So then the process would normally
:	12	be, instead of in this case, you would have had it
:	13	accepted by the publisher, first draft in July, and
	14	then maybe in August you would have met with the
	15	funders?
	16	A Right. We haven't given the funders the
	17	final paper yet.
	18	Q Okay. What is it that we have?
	19	A You have what's been accepted by the
	20	journal.
	21	Q Okay. And the final paper would be what
	22	are there changes that may occur between the paper as
	23	accepted and what's published?
	24	A Yeah. There may be some superficial
	25	changes, and the gallies may have the tables
	i i	

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	Case 1:03-cv-17000-KMO Document 1802-4 1:03-cv-17000-KMO
	Page 42
1 2	misaligned or something like that. Q But normally speaking, as I understand it, you would first have, for example, what we now have
3 4	7 IImh-humh.
5 6	A We what we would do is we would take our, A way final paper, submit it to the funders along with
8	our final bill. And they don't have the final bill
10	Wolll mark this a little later.
11	T just want to understand if that is what
1	and soll the final paper.
1 1 1	(Witness reviewing document.)
1	7 first part is.
1	8 Q All right.
1	A Yeah, Page 25. O Q So until we get to the Protective Order
2	
Ì	21 A Umh-humh. 22 Q that's the final paper?
ł	23 A Right. 24 Q And as I understand it, normally that is
	24 Q And as random 25 what would be presented to a funder?

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	Case 1:03-cv-17000-KMO Document 1002			
	Page 43			
	A I I'm not saying that we would not talk			
1	A I I'm not saying to the funder through the process, but we would submit			
2	to the funder through our final payment or the final paper along with our final payment or			
3				
4	final invoice. Q And as final paper, and I'm I don't mean			
5	Q And as linar paper, to be splitting frog's hairs here, but I'm trying to			
6	to be splitting frog s narro be sure I understand what's a final paper.			
7				
8	A Umh-humh. Q Because you just indicated, I thought, that			
9	Q Because you just indicate,			
10	you had not yet submitted the final paper to the			
11	welding industry.			
12	A Right.			
13	Q Okay. So then what is this?			
14	A That's the final paper. But I don't know			
15	why Doctor Blot hasn't submitted it yet.			
16	Q Well, do you know how the welding industry			
17	may have gotten copies of it?			
18	A We gave it to them.			
19	Q Okay. Who gave it to them?			
20	A IEI, either Doctor Blot or myself.			
21	Q Then what do you mean by saying you don't			
22	know why Doctor Blot hasn't given it to them?			
23	A I'm sorry. What I'm saying is that our			
24	we are talking about our normal process.			
25	Q Yes, sir.			
ı				



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	Jase 1:03-cv-17000-rtivie 2001
	Page 44
1	A And as part of our normal process, our
2	invoicing process, we submit the last invoice along
3	with the final paper. This is the final paper that
4	you have. Because of this Protective Order in this
5	litigation, you wanted a copy of what the final paper
6	would look like in the journal, so we supplied this.
7	O All right. So normally speaking, a funder
8	would get a copy of the final paper at what point?
9	A On the conclusion of the study.
10	Q Is the study concluded?
11	A Absolutely.
12	Q And when was it concluded?
13	A When we did the final changes on this paper,
14	which I think was October.
15	Q Okay. So let me try to get the sequence
16	right.
17	A Umh-humh.
18	Q And excuse my inability to understand.
19	Would you normally give a copy of the final
20	paper to a funder only after you had made the final
21	changes as required by the publisher?
22	A You know, I it varies by project, because
23	some projects they don't want the paper, they just
24	want a report. And it varies by project.
25	Q One other point I forgot to tell you, if
1 - 3	

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Ca	ase 1:03-cv-17000-KMO Document 1002		
	Page 45		
1	there's a point at which you would like to take a		
2	break for any reason, just let us know.		
3	A Okay.		
4	MR. CROSBY: Do you all have a break		
5	schedule that you		
6	MR. SCHACHTMAN: No. I just figured we'd go		
7	about ninety minutes or so and give the reporter a		
8	chance to put her fingers in ice.		
9	BY MR. CROSBY:		
10	Q What all did you review, if anything, prior		
11	to commencing the study that the industry funded on		
12	welding?		
13	A I reviewed some prior studies on welding and		
14	Parkinson's disease.		
15	Q Do you recall which ones?		
16	A The ones that are mentioned in the paper.		
17	Q And you read those before you began the		
18	study?		
19	A Yes. Before my involvement in the study.		
20	Q Was that before Doctor Blot put you in		
21	charge, or after he had put you in charge?		
22	A After he did.		
23	Q Any meetings with defense counsel after July		
24	2004?		
25	A I, I think I met with Mr. Schachtman in I		
1			

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(Case 1:03-cv-170	00-KMO Document 1862-4 Thed 66/67/2005
		Page 46
1	think our	first meeting was in November.
2	Q	Of '04?
3	À	Yeah.
4	Q	And what was the nature of that visit?
5	A	To discuss this litigation.
6	Q	Do you recall what you all discussed other
7	than just	this litigation?
8	A	I wrote a Declaration for the court that we
9	discussed	
10	Q	Do you recall what he had to say, if
11	anything,	about it?
12	A	Yes, some things.
13	Q	Who prepared the first draft of the
14	Declaration?	
15	A	I did.
16	Q	And then were there any other drafts?
17	A	Yes.
18	Q	Who all was involved in that process?
19	А	In the process of preparing the drafts?
20	Q	Yes, sir.
21	A	Myself, Doctor Blot, Doctor McLaughlin,
22	Mr. Scha	chtman. And I think that's it.
23	¹ Q	What was Doctor Blot's role with respect to
24	the draf	t?
25	Ä	Editing.
1		

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4	Case 1:03-cv-170	000-KMO Document 1862-4 Filed 36/31/2
<u> </u>		Page 47
1	Q	Do you have copies of any of those drafts?
2	A	No.
3	Q	Do you know if Doctor Blot does?
4	A	No, because he gave his copy back to me.
5	Q	And what did you do with it?
6	A	I made the changes he suggested and threw it
7	away.	of his
8	Q	Okay. Do you remember the nature of his
9	suggestic	ons and changes?
10	A	No, I don't.
11	Q	What about Doctor McLaughlin, what role did
12	he play?	
13	A	The same as Doctor Blot, editing.
14	Q	And do you have a copy of the draft where he
15	had his	comments?
16	A	No.
17	Q	Do you recall what areas he had comments and
18	changes	? •
19	А	Probably more grammatical.
20	Q	Why would you think that Doctor Blot would
21	be deal:	ing with substance and Doctor McLaughlin would
22		ing with language?
23	Α	He's a stickler for that.
24	Q	And what about Mr. Schachtman, what was his
25	; role?	

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U	ase 1.00-04-110	100-KMO Document 1002 4 () and o six
		Page 48
1	A	He reviewed what I wrote and offered some
2	suggestions.	
3	Q	Do you recall what his suggestions were?
4	A	Not specifically.
5	Q	Do you recall generally?
6	A	About the wording of some of the comments.
7	Q	Do you recall what, wording about what
8	comments?	
9	A	I don't recall specifically what comments,
10	no.	high
11	Q	Do you recall any general comments about his
12	suggestions?	
13	Ä	No, other than he liked what I had written.
14	Q	He did. Had you ever given a declaration
15	for a cou	rt before?
16	A	No.
17	Q	Did you find the process interesting?
18	A	Not particularly.
19	Q	Did you find it unique?
20	A	No.
21	Q	What did you find it to be similar to in
22	your expe	erience?
23	A	Probably similar to writing a scientific
24	abstract	•
25	Q	And when you get the reviewer's comments

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(Case 1:03-cv-17000-KMO Document 1602-4 1 1:05 5 5 5
	Page 49
1	back you make changes or don't make changes in a
2	scientific abstract, right?
3	A If you don't make changes you have to
4	instify why not.
5	O Did Doctor Blot or Doctor McLaughlin expect
6	you to do that with them with respect to their
7	suggestions?
8	A Their suggestions weren't substantial enough
9	to warrant big changes in the Declaration.
10	Q What about Mr. Schachtman's?
11	A The same.
12	Q But you don't recall what they were?
13	A Not specifically, no.
14	Q Do you recall how much time you spent doing
15	that?
16	A I, I billed him for the time, so you have a
17	copy of my bill.
18	Q Do I have a copy of all of your bills
19	A Yeah.
20	Q relating to this?
21	A To these, yeah.
22	Q What is your normal hourly billing rate?
23	7 14 6 16T 2 9777777
24	the monies myself. So I think they charged me at four
25	hundred dollars an hour.
1	

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Ca	ise 1:03-cv-17000-KMO Document 1002-4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 2 :	MR. CROSBY: Let me show you what I will mark as Exhibit 1, please. Would you hand me some of
4	those? THE WITNESS: These (indicating)? MR. CROSBY: Yes.
5 6 7	(Deposition Exhibit No. 1 was marked for identification and was attached to the transcript.)
8 9	BY MR. CROSBY: O That's a copy of excuse me.
10	MR. CROSBY: Do you want a copy? MR. SCHACHTMAN: Oh, thank you. MR. CROSBY: Sure.
12	BY MR. CROSBY:
15	received. Could you tell me which one of those, if any, relates to your preparation of the Declaration? A Yeah. The first one, the one on the top.
17 18 19	January 10th, 2005. Q So it's twenty-one hours?
20	A Correct, yes. Q What does Doctor McLaughlin bill at?
22 23 24	A I have no idea. Q How about Doctor Blot? A No idea.
25	Q If you'll look at the second page, please,

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	Ca	ase 1:03-cv-17000-KMO Document 1862-4 1 1864 59754
Γ		Page 51
	1	sir.
1	2	Timb-humh (complying).
	3	Q It's a statement for fifty-seven thousand,
	4	nine hundred and forty dollars?
	5	A Umh-humh
		Q Dated September 29, 2003?
	6 7	7 Ves
		O At what point were you in the study there?
	8	Oh. T think probably it was December or
	9	January, December of 2003, January of 2004, around
	10	that time
	11	Q But I'm looking at a bill for September
	12	2003.
	13	n Right.
	14	so does that mean that the roughly fifty-
	15	eight thousand dollars was an initial payment before
	16	had been undertaken?
	17	There is a huge undertaking by the
	18	Danes to assemble the data, actually, first approved,
	19	to get approval for using the data, and then to
	20	the underlying hospitalization data.
	21	Q Had IEI undertaken anything at this point?
	22	Other than initial meetings, no.
	23	Does TET generate any itemized bill for the
	24	work done, or do they just send the bill for roughly
	25	MOLY GOTTOL -

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C	Case 1:03-cv-17000-KMO Document 1662
	Page 52
1	fifty-eight thousand dollars?
2	A I'm not in charge of billing, so I don't
3	know.
4	Q I understand you're not in charge of it.
5	But you don't have any understanding as to whether or
6	not an IEI bill submits the amount of time spent by
7	TEL personnel or others, or copies of receipts for
8	monies expended, or invoices from third parties for
9	services rendered or items provided?
10	A I have no knowledge of that at all.
11	Q How long have you been working there?
12	A Since '97, 1997.
13	Q Do you all have any kind of production or
14	billing goals at IEI?
15	No. not that I'm aware of.
16	Q So if you go to work at IEI what's your
17	normal workday?
18	A It varies from day to day.
19	Q Is there a time you're expected to be at
20	work?
21	A Yes.
22	Q What time?
23	A Between eight and nine in the morning.
24	Q Is there a time you're expected to be at the
25	office or to be engaged in work during the day?

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C	ase 1:03-cv-17000-KMO Document 1002 1
	Page 53
1	A Between then and six, five, six p.m.
2	O Okay. And I take it there are many days
3	where you work many more hours than that?
4	A Correct, yes.
5	Q Do you keep a timesheet?
6	A We do keep a timesheet for our NIH funding.
.7	Q How about for matters such as the welding
8	industry study?
9	A No.
10	Q So how did you know that you spent twenty-
11	one hours doing the Declaration?
12	A This was for the litigation, that we did
13	keep track of. But for the actual study, we don't.
14	Q Okay. So did you do a time
15	A Because it's an hourly rate.
16	Q Because what's an hourly rate?
17	A The work on the Declaration was. Q Okay. Well, wasn't the work for the study
18	••
19	projected on an hourly basis? A Not to my knowledge. I think in the
20	A Not to my knowledge. I the hourly estimates.
21	proposal he put some hourly estimates.
22	Q And who is he?
23	A Doctor Blot. Q What's your best judgment as to how many
24	Q What's your best judgment of the welding industry study
25	hours you spent working on

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(Case 1:03-cv-17000-KMO Document 1662
	Page 54
1	in Denmark?
2	A Well, when we did the initial analysis and
3	paper writing, I was there for a week. So probably
4	fifty or sixty hours that week.
5	Q All right.
6	A Before and after that, I'm not sure.
7	Q How about overall, how many hours do you
8	feel like you put into the study that were, you know,
9	legitimate
10	A Umh-humh.
11	Q billable work hours?
12	A I don't think I could give you a number.
13	Q Okay. How about how many did Doctor Blot
14	put in?
15	A I don't know.
16	Q Do you know how many hours anybody at IEI
17	put in?
18	A No. Q How about how much time anybody involved in
19	
20	the study in Denmark put in?
21	A No. Q With the NIH work, do they circulate a draft
22	Q With the NIH work, do they draw to be
23	
24	to the the terms
25	MR. SCHACHTMAN: Objection to the form.

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- Ca	Page 55
1 2 3	A I'm not sure what you're asking. Q Well, you indicated, I thought, and maybe I misunderstood it, that you kept time with respect to
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A Yes. Q Does that go back to NIH for their review? A You know, I'm not sure. I'm not sure. Q And is it your understanding that in addition to the round numbers, two hundred and eighty thousand dollars that has been billed, that there is yet another statement that's due to the welding industry for this study? A I think according to the proposal, there is. Q Have you read any other expert's declarations in the welding litigation? A Yes. Q Did you read any of them before you wrote
18 19 20 21 22 23 24 25	A No. No, I didn't. Q All right. Who all's have you read? A I read Doctor Wells' and Doctor Louis'. And you're asking me before I wrote my Declaration? Q Yes, sir. A Yeah. I think that's it.

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C	ase 1:03-cv-17000-KWC Became
	Page 56
1	Q Okay. So
2	A I'm trying to recall exactly when I read
3	them and when I wrote my Declaration. It was all
4	around the same time.
5	Q All right. Did anybody give you any
6	guidance as to what was to be contained in your
7	Declaration?
8	A No.
9	Q So
10	A It was my understanding that I would write
11	about that I was going to discuss the study that I
12	did.
13	Q And what is your understanding as to why you
14	were going to be called as an expert witness in this
15	case?
16	A Because the study wasn't in the public
17	domain yet, it hadn't been published in the
18	literature, and in case there were questions about
19	that, that they wanted to use me as an expert witness. O Is it your understanding, or do you intend
20	Q Is it your understanding, to offer any testimony concerning studies published by
21	to offer any testimony concerning of the state of the sta
22	any other person or entity with respect to health
23	effects of welding? A I'm going to only discuss my study.
24	A I'm going to only discuss in a lim going to only discuss in
25	Q Have you formed any opening

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(Case 1:03-cv-17000-KMO Document 1662
	Page 57
1	any studies other than yours concerning health effects
2	of welding fumes?
3	A I have not, no.
4	MR. CROSBY: All right. So he's limiting
5	himself to just his study?
6	MR. SCHACHTMAN: As are we.
7	MR. CROSBY: All right. If you want, we
8	could take that break now.
9	MR. SCHACHTMAN: Absolutely.
10	MR. CROSBY: Great.
11	THE VIDEOGRAPHER: We are going off the
12	video record. The time is 10:20 a.m.
13	(A short recess was taken.)
14	THE VIDEOGRAPHER: We are back on the video
15	record. The time is 10:39 a.m.
16	BY MR. CROSBY:
17	Q All right. We're back on the record. Still
18	under oath, all right?
19	A Okay.
20	Q All right. Now, after reading Doctor Wells'
21	and Doctor Louis' Declarations sometime around
22	before or after you did your Declaration, have you
23	read anybody else's declarations?
24	A I read David Garabrant's Declaration a
25	couple weeks ago.
1	

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	Page 58
1	Q Did you form any impressions or opinions
}	concerning what he stated in his Declaration?
2	A Yes, I it's a difficult question.
3	
4	thoughts about his
5	- also on expressing any of those
6	Q Do you plan on expression in any thoughts with respect to his Declaration in any
7	subsequent declaration or in any testimony?
8	
9	A No. MR. CROSBY: Is that correct, are you all
10	·
11	going to elicit anything? MR. SCHACHTMAN: I'm not going to ask him
12	MR. SCHACHIMAN: 1 m noo y 1
13	for those opinions, so if I do, they'll be
14	nonresponsive answers.
15	MR. CROSBY: All right.
16	BY MR. CROSBY:
17	Q With respect to any other declarations,
18	besides Doctor Wells, Doctor Louis and Doctor
19	Garabrant, have you read any?
20	A Not for this case, for this litigation.
21	Q Okay. Have you read any for any other
22	litigation?
23	A I have.
24	Q And what litigation is that?
25	A I think I back when I, I looked at the

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1 litigation I worked on in the Nineties, I think I, I 2 read some affidavits then. But I can't recall 3 exactly. 4 Q Okay. Would that have been the Superfund? 5 A Superfund, yeah. I think I did. 6 Q Have you read any briefs that have been 7 filed in this case? 8 A No. 9 Q Have you ever read a legal brief before? 10 A I have not, no. 11 Q How about any deposition transcripts? 12 A Yeah. 13 Q Okay. 14 A I have. Yes, I have. 15 Q Okay. Whose deposition transcripts have you read? 16 read? 17 A Doctor Wells', Doctor Louis'. 18 Q How about Doctor Garabrant's? 19 A Yes, I did read his as well. 20 Q Anybody else's? 21 A Not for this litigation. 22 Q Okay. What litigation have you read deposition transcripts before? 24 A Probably the past litigation I worked on for the Superfund sites.			Page 59
2 read some affidavits then. But I can't recall 3 exactly. 4 Q Okay. Would that have been the Superfund? 5 A Superfund, yeah. I think I did. 6 Q Have you read any briefs that have been 7 filed in this case? 8 A No. 9 Q Have you ever read a legal brief before? 10 A I have not, no. 11 Q How about any deposition transcripts? 12 A Yeah. 13 Q Okay. 14 A I have. Yes, I have. 15 Q Okay. Whose deposition transcripts have you lead? 16 read? 17 A Doctor Wells', Doctor Louis'. 18 Q How about Doctor Garabrant's? 19 A Yes, I did read his as well. 20 Q Anybody else's? 21 A Not for this litigation. 22 Q Okay. What litigation have you read deposition transcripts before? 24 A Probably the past litigation I worked on for	1	litigation	I worked on in the Nineties, I think I, I
A Superfund, yeah. I think I did. Q Have you read any briefs that have been filed in this case? A No. Have you ever read a legal brief before? Have you ever read a legal brief before? How about any deposition transcripts? A Yeah. Q Okay. A I have. Yes, I have. Q Okay. Whose deposition transcripts have you read? A Doctor Wells', Doctor Louis'. A Yes, I did read his as well. A Yes, I did read his as well. A Not for this litigation. Q Okay. What litigation have you read deposition transcripts before? A Probably the past litigation I worked on for		read some	affidavits then. But I can't recall
A Superfund, yeah. I think I did. Q Have you read any briefs that have been filed in this case? A No. Q Have you ever read a legal brief before? In A I have not, no. How about any deposition transcripts? A Yeah. Q Okay. A I have. Yes, I have. Q Okay. Whose deposition transcripts have you have you have about Doctor Garabrant's? A Yead: A Yead: A No. A Doctor Wells', Doctor Louis'. A Wead: A No. A	3	exactly.	hoon the Superfund?
filed in this case? A No. Have you ever read a legal brief before? A I have not, no. How about any deposition transcripts? A Yeah. Okay. A I have. Yes, I have. Okay. Whose deposition transcripts have you read? A Doctor Wells', Doctor Louis'. A Wes, I did read his as well. A Yes, I did read his as well. A Not for this litigation. Okay. What litigation in worked on for the past litigation I worked on for the past litigation I worked on for the past litigation in the past litigation in the past litigation in the past litigation I worked on for the past l	4	Q	Okay. Would that have been the burner of think I did.
filed in this case? A No. Have you ever read a legal brief before? In A I have not, no. How about any deposition transcripts? A Yeah. A I have. Yes, I have. A I have. Yes, I have. A Okay. A Doctor Wells', Doctor Louis'. A Doctor Wells', Doctor Louis'. A Yes, I did read his as well. A Not for this litigation. A Not for this litigation have you read deposition transcripts before? A Probably the past litigation I worked on for	5		Superfund, year. I think I do
9 Q Have you ever read a legal brief before? 10 A I have not, no. 11 Q How about any deposition transcripts? 12 A Yeah. 13 Q Okay. 14 A I have. Yes, I have. 15 Q Okay. Whose deposition transcripts have you not			
9 Q Have you ever read a legal brief before? 10 A I have not, no. 11 Q How about any deposition transcripts? 12 A Yeah. 13 Q Okay. 14 A I have. Yes, I have. 15 Q Okay. Whose deposition transcripts have you not			
10 A I have not, no. 11 Q How about any deposition transcripts? 12 A Yeah. 13 Q Okay. 14 A I have. Yes, I have. 15 Q Okay. Whose deposition transcripts have you not			Have you ever read a legal brief before?
11 Q How about any deposition transcripts? 12 A Yeah. 13 Q Okay. 14 A I have. Yes, I have. 15 Q Okay. Whose deposition transcripts have you not			I have not, no.
13 Q Okay. 14 A I have. Yes, I have. 15 Q Okay. Whose deposition transcripts have you 16 read? 17 A Doctor Wells', Doctor Louis'. 18 Q How about Doctor Garabrant's? 19 A Yes, I did read his as well. 20 Q Anybody else's? 21 A Not for this litigation. 22 Q Okay. What litigation have you read 23 deposition transcripts before? 24 A Probably the past litigation I worked on for		Q	How about any deposition transcripts?
14 A I have. Yes, I have. 15 Q Okay. Whose deposition transcripts have you 16 read? 17 A Doctor Wells', Doctor Louis'. 18 Q How about Doctor Garabrant's? 19 A Yes, I did read his as well. 20 Q Anybody else's? 21 A Not for this litigation. 22 Q Okay. What litigation have you read 23 deposition transcripts before? 24 A Probably the past litigation I worked on for	12	A	Yeah.
15 Q Okay. Whose deposition transcripts have you 16 read? 17 A Doctor Wells', Doctor Louis'. 18 Q How about Doctor Garabrant's? 19 A Yes, I did read his as well. 20 Q Anybody else's? 21 A Not for this litigation. 22 Q Okay. What litigation have you read 23 deposition transcripts before? 24 A Probably the past litigation I worked on for	13	Q	_
16 read? 17 A Doctor Wells', Doctor Louis'. 18 Q How about Doctor Garabrant's? 19 A Yes, I did read his as well. 20 Q Anybody else's? 21 A Not for this litigation. 22 Q Okay. What litigation have you read 23 deposition transcripts before? 24 A Probably the past litigation I worked on for	14	A	I have. Yes, I have.
17 A Doctor Wells', Doctor Louis'. 18 Q How about Doctor Garabrant's? 19 A Yes, I did read his as well. 20 Q Anybody else's? 21 A Not for this litigation. 22 Q Okay. What litigation have you read 23 deposition transcripts before? 24 A Probably the past litigation I worked on for	15	Q	Okay. Whose deposition transcripts have you
18 Q How about Doctor Garabrant's? 19 A Yes, I did read his as well. 20 Q Anybody else's? 21 A Not for this litigation. 22 Q Okay. What litigation have you read 23 deposition transcripts before? 24 A Probably the past litigation I worked on for	16	read?	
19 A Yes, I did read his as well. 20 Q Anybody else's? 21 A Not for this litigation. 22 Q Okay. What litigation have you read 23 deposition transcripts before? 24 A Probably the past litigation I worked on fo	17	A	Doctor Wells', Doctor Louis .
20 Q Anybody else's? 21 A Not for this litigation. 22 Q Okay. What litigation have you read 23 deposition transcripts before? 24 A Probably the past litigation I worked on fo	18	Q.	
21 A Not for this litigation. 22 Q Okay. What litigation have you read 23 deposition transcripts before? 24 A Probably the past litigation I worked on fo	19	A	
22 Q Okay. What litigation have you read 23 deposition transcripts before? 24 A Probably the past litigation I worked on fo	20	Q	
Q Okay. What litigation have you read deposition transcripts before? A Probably the past litigation I worked on fo	21	A	Not for this litigation.
23 deposition transcripts before? 24 A Probably the past litigation I worked on fo	1		·
24 A Probably the past litigation 1 Worked on 19		depositi	on transcripts before?
25 the Superfund sites.		À	Probably the past litigation I worked on Iss
43 000	25	the Supe	erfund sites.

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	Ca	ase 1:03-cv-17000-KMO Document 1992
		Page 60
1	L	Q How about trial transcripts, have you read
2	2	any trial transcripts?
:	3	A No.
\ ,	4	Q Speaking of trials, this is a question that
	5	we lawyers have to ask, and it's not meant to do
	6	anything other than just do what lawyers have to do,
	7	somewhat like what doctors have to do when you go into
	8	a hospital, and some of it's not fun.
	9	Have you ever been convicted of a crime?
1	_0	A No.
1	1	Q Have you ever been charged with a crime?
	12	A No.
:	13	Q What else have you read with respect to
:	14	preparing for your Declaration or this deposition
	15	other than the transcripts that we discussed, the
	16	Declarations we discussed, and the articles that are
	17	referenced in your Declaration and in your paper?
	18	A Nothing else.
	19	Q With respect to the papers that you read
	20	dealing with welding fumes and health aspects
	21	A Umh-humh. Q did you do any power analysis of any of
	22	Q did you do any power andryor-
	23	those?
	24	A Of the studies?
	25	Q Yes.
	L	and the second section of the

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	Page 61
1	A No.
2	Q Did you ever do any power analysis with
3	respect to the Danish study you did for the welding
4	industry?
5	A No.
6	Q Did you do a pre-study power analysis with
7	respect to that study?
8	A No.
9	Q Did Doctor Blot?
10	A No, he did not.
11	Q Did anybody do one?
12	A No.
13	Q Has anybody done a post-study power analysis
14	of the Danish study you all did for the welding
15	industry?
16	A There was no need to. We had the study
17	results.
18	Q I understand your opinion on that.
19	A Umh-humh.
20	Q But what I'm asking is whether or not you
21	did it.
22	A It was not done, no.
23	Q Okay. Do you know if anyone has done that?
24	A I know Doctor I think Doctor Louis wrote
25	about a power calculation he did. It was either

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	Case 1.03-CV-17003 (MIC
	Page 62
1	Doctor Louis or Doctor Wells.
2	Q Since the Declaration in November when you
3	spent approximately twenty-one hours, how many hours,
4	if any, have you spent involved in welding research or
5	endeavors for anybody?
6	MR. SCHACHTMAN: Objection to the form.
7	A I'm not sure what you mean by welding
8	research.
9	Q Have you done anything pertaining to health
10	aspects of welding fume exposure since your
11	Declaration was finished?
12	
13	Q Okay. What is that?
14	A We've designed a study for Sweden, to look
15	at welders in Sweden.
16	Q What about with respect to litigation?
17	A I'm not sure what you're asking.
18	O All right. Have you spent any time
19	reviewing anything for which you're going to charge
20	respect to the litigation since you
2	finished your Declaration?
2	Tive not reviewed anything for money since i
2	3 finished my Declaration.
2	Q Okay. Have you reviewed anything relating
2	5 to health aspects of welding fume exposure since your
1	

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	Case 1:03-cv-17000-KiviO Boddmont 1032
	Page 63
1	Declaration for any purpose, other than for the
2	swedish study?
3	A Yeah, nothing other than the declarations
4	and the depositions that we discussed earlier.
5	O Okay. And how much time since you finished
6	Declaration have you spent either doing research
	or reviewing literature or transcripts or declarations
	relating to this litigation since you finished your
	n Declaration?
1	MR. SCHACHTMAN: Objection to form.
1:	A I'm not sure of the exact number of hours,
1	2 but I'm not sure of the exact number of hours.
1	o dingo vour
1	4 A But some.
1	5 Q Okay. Have you written it on a timesheet
1	6 somewhere?
1	7 A Yeah.
1	.8 Q Okay. And do you still have those
1	19 timesheets?
2	20 A It's it would be an email that I would
2	send to Doctor Blot.
	22 Q Have you met with anyone in preparation for
	23 this deposition today?
	24 A Yes.
	25 Q And who all was that?
- 1	

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	se 1:03-cv-17000-KMO Document 1862-4 Thed coron-2019 Page 64
1	A Mr. Schachtman and Erika Doherty.
2	Q And when did you all meet?
3	A It was last Thursday.
4	Q And where were you?
5	A Here.
6	Q And how long did you all meet?
7	A It was about four hours, four or five hours.
8	Q Okay. And what all did you all discuss?
9	A The deposition.
10	Q What aspects of it?
11	A How to dress, how to you know, what the
12	deposition would entail, those type of issues.
13	Q Did you discuss your study?
14	A A little bit, yes.
15	Q What aspects of the study did you all
16	discuss?
17	A Just, just the basic, you know, what I would
18	say about the study.
19	Q And what did you say that you would say?
20	A That it was an excellent study.
21	Q And is that your own humble opinion?
22	A Absolutely.
23	Q And what else, if anything, did you discuss
24	about the study?
25	A We also looked at other depositions and reac

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Page 65
1 through what other people had written about the study.
Which ones did you all read through
what depositions?
Dogtor Louis' and Doctor Wells'.
And did you go over their
n alamations as well?
T think I just looked at the depositions.
and what were the comments by the lawyers or
wents about Doctor Wells' statements
ning your study?
T'm not sure what you're asking.
Maybe T misunderstood. Did you all discuss
Walls! deposition and comments he made
the your study?
7 VAS
What comments of Doctor Wells did you
1 -
17 all discuss? 18 A The comments that pertained to me.
And what were they? What did he
the gist of his comments about
nogtor Wells?
O Yes.
T can't recall them off the top of my head.
them in the deposition.
MR SCHACHTMAN: Let me just 11 1 may.
25 MR. SCIII-25

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	Page 66
	Curo
1	MR. CROSBY: Sure. MR. SCHACHTMAN: I don't think much turns on
2	MR. SCHACHTMAN: I don't think
3	it, but Doctor Wells has not testified, and I think
4	the witness is referring to the Declaration that he
5	reviewed, and I think he's just confused what a
6	declaration is and what a deposition is.
7	MR. CROSBY: Okay. Thank you.
8	BY MR. CROSBY:
9	Q Have you does that help refresh your
10	recollection?
11	A Absolutely.
12	Q All right. Now, do you recall the substance
13	of what Doctor Wells said about your study?
14	A I remember him saying that it was a very
15	good cohort study.
16	Q And that was in his Declaration?
17	A Yes.
18	Q And do you recall what Doctor Louis said?
19	A Not specifically, no.
20	Q Do you recall anything that Doctor Wells
21	said about your study that you disagreed with?
22	A I think I disagreed with all of his
23	comments.
24	Q Okay. And what about Doctor Louis, was
25	there anything that he said about your study with

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	rage o/
1 W	which you disagreed?
2	there was.
3	A Yes, there was
4 v	what Doctor Louis said?
5	A Some of his specific comments about my
6	study. Q How many declarations of Doctor Louis have
7	Q How many declarations of Bosses
8	you read?
9	A To my knowledge, just one. Q And how many declarations of Doctor Wells
10	
11	have you read?
12	A One. Q And what about Doctor Garabrant?
13	Q And what about boccor of A I guess I'm confused about what
14	A I guess 1'm confused and
15	deposition and declaration, so
16	Q A deposition A I know I read his deposition.
17	A I know I read his out O Nay. A deposition is typed up on a piece
18	Q Okay. A deposition of paper and they double space everything and it
19	see a question and a question
20	them thew'll be skipping down, have
21	have an answer for what some a
22	then it will have an answer process, reads like a So it's a question and answer process,
23	
24	script. A Yeah. I think I read both Doctor
25	A Yean. 1 c

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	Page 68
1 2	Garabrant's Declaration and deposition. Q Okay. And was there anything that Doctor
3	Garabrant said about your study with which you
4	disagreed?
5 6	A No. Q Is there anything that he said that you
7	agreed with?
8 9	A Yes. Q Do you recall what it is that you agreed
10 11	with? A His the specifics I don't, unless you
12 13	read them to me. MR. CROSBY: Okay. I'd renew the request
14	for the information relating to billing, please. Q Do you have any notes of any conversations with any of the counsel that you've met with?
16	n No
18	Q How about any correspondence or emails,
19	anything like that? A I have emails that pertain to where the
20	A I have emails that person
21	deposition would be held and things like this. Q Anything dealing with health aspects of
23	welding fumes, or studies or declarations relating to
24	health aspects of welding fumes? A Yes.
25	A 200

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C	Page 69
1	Q Emails?
2	A Yeah.
3	Q Okay. From counsel?
	γeah.
5	Q And do you know where those are?
6	yeah T have them.
7	MR, CROSBY: Okay. I'll renew the request
8	for those, please. MR. SCHACHTMAN: Let me just say that I know
9	that Messrs. Harber and Barrett had an agreement reached about drafts, and if the emails he's talking
11	about - and I don't really know which ones he is -
12	about - and I don't relate to drafts, then I think it's covered by the
14	MR. CROSBY: I'm not trying to do anything
16	that is, you know, contrary to whatever agreements
17	that is, you know, other that is, you know, other made, but if there's that our respective folks have made, but if there's
18	something that I'm entitled to have
19	MR. SCHACHTMAN: I understand.
20	MR. CROSBY: I'm just asking for it. MR. SCHACHTMAN: And so we'll take it under
21	MR. SCHACHTMAN: And so we remain the marker and
22	advisement, and I will seek counsel from Harber and
23	-
24 25	a Are you currently working on any kind of

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Cas	se 1:03-cv-17000-KMO Document 1862-4 Filed 35,57.
1 5	supplemental report?
2	A No.
3	Q Have you been asked to prepare one
4	A No.
5	Q or consider one?
6	A No.
7	A No. Q Is there do you have a desire to submit Destar Wells and Doctor
8	one after having read what Doctor Wells and Doctor
9	Louis had to say?
10	A No. Q Has anyone discussed with you doing any
11	Q Has anyone discussed with in the spects of welding fumes
12	study relating to health aspects of welding fumes
13	other than your Swedish study?
14	A No. Q Are you familiar with any other studies
15	Q Are you familial with any other researchers with respect being conducted by any other researchers with respect
16	being conducted by any other roots
17	to health aspects of welding fumes? A Other than what's been published in the
18	A Other than what B Source
19	literature, no, no ongoing studies. Q Have you sought funding for any studies
20	Q Have you sought fundamental property of welding relating to welding fumes or health aspects of welding
21	relating to welding lumes of the fumes from any source other than manufacturers of
22	
23	welding rods?
24	A No. Q Have you are you aware of anyone
25	Q Have you are you

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submitting proposals for grants to NIH or any other governmental agency or institution with respect to conducting a study on health aspects of welding fumes? A I'm not aware. Q Do you agree or disagree with this statement: There is no current scientific
and time-consuming analytic studies
disease and welding?
A Would you repeat? Q Yes, sir. There is no current scientific justification and no past scientific justification for expensive and time-consuming analytic studies of Parkinson's disease and welding? A It has a lot of qualifiers in it. MR. SCHACHTMAN: Is there a time when that statement was made? There's a temporality aspect to it. Q Let's assume it was made within the last two
20 years. 21 A Would you repeat it one more time, please? 22 Q Yes, sir. 23 A Umh-humh. 24 Q There is no current scientific justification 25 and no past scientific justification for expensive and

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	Page 72
1	time-consuming analytic studies of Parkinson's disease
2	and welding. MR SCHACHIMAN: Objection to the form.
3	MR. SCHACHTMAN: Objection to the 191
4	A I believe there's justification to study
5	Parkinson's disease among welders, yes.
6	so do you agree that there is culture
7	scientific justification for expensive and time-
8	consuming analytic studies of Parkinson's disease and
9	welding?
10	t don't know.
11	A I don't know of the continuation of the cont
	for expensive and time-consuming
12	studies of Parkinson's disease and asset
13	T T believe there is Justilleacton
14	studying Parkinson's disease and welding, yes.
15	Why do you believe that?
16	Q Why do you A There were some case reports that I read
17	about in the literature.
18	all might.
19	Think it would be important to verily
20	rigorous analytical method.
21	you know, lawyers sometimes ponder
22	
23	al humb
24	wondering are you an
25	Q And I'm wonder 2-13
- 1	THE RESIDENCE OF THE PROPERTY

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1	epidemiologist, or a biostatistician?
2	Enidemiologist.
3	A Epidemiologists Q And I was wondering, do epidemiologists
4	sometimes ponder having the dream epidemiological
5	what would you do to design the period
6	epidemiological study if you could do it:
7	The rould be a cohort study.
8	A It would be a long of the Q Okay. Now, was your Danish study for the
9	Q Ordy. Now, we welding industry, did it meet your standard for the
10	atudy?
11	A I think it's the best study to date.
12	Q Okay.
13	A It's a very powerful study.
14	A It's a vol'i Q If you could tell me, please, sir well,
15	did you calculate the power?
16	T did not calculate the power, no.
17	Q Could you tell me, please, with respect to
18	going forward
19	A Umh-humh.
20	A Umn-numn. Q —— and just disregard your Swedish proposal.
21	Let's assume that I come to you and say I want you to
22	the best study that course
23	the guestion are people that are our
24	some at an increased risk for rule
2!	Parkinsonism, neurological problems,
1	

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1 disorders.	
2 A Umh-humh.	
3 Q Okay?	CORPORATE TO
(Nodding.)	d d
trould be your first step	after 1 said
ig no object, besides smiling lik	e you Just did.
6 money is no object, 7 A The first step would definite	ely be to
o identify welders.	NAME OF THE PARTY
How do you mean that?	lding
Identify people who had works	ed in weiding.
10 A Identify P 1 11 Q Okay. And I want to do that	in the United
12 States.	
- von do?	4 6 6 6 6
13 A Fou do: 14 Q If I want to do that in the	United States,
15 how do we do it?	
- don't know.	how him a
16 A I don't know. 17 Q Okay. But you would go abou	it now big a
18 group would you need?	
19 A In order to see an effect?	
20 Q Yes.	
T don't know.	ethor gountry.
TE you did the study in any	ounce councer,
how hig a population you	would need inaful
ander to see whether or not there was	any mouse 3
24 order to see 25 effect that was statistically signifi	_cant:

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C.	ase 1:03-cy-17000-KMO Document 1862-4 Filed 06/07/2000 1 05
	Page 75
1	A Yeah, I don't think anyone could answer
2	that.
3	Q Okay. Why is that?
4	Q Okay. Will be a considered and disease registries or A Because there are no disease registries or
5	background rates of Parkinson's disease.
6	There in the world, or
7	A To my knowledge, in large populations in
8	Denmark we didn't have any background rates of
9	Denmark we didn't have day Parkinson's disease, so there was no way to calculate
10	
11	power. Q Do you have a general understanding or Q accepted as the
12	appreciation as to what is generally accepted as the
13	appreciation as to what it is appreciation as to what is a second incidence of Parkinson's disease in human background incidence of Parkinson's disease in human
14	beings in the United States?
15	A I have no knowledge of that.
16	MR. SCHACHTMAN: Objection to the form.
17	A I have no knowledge of that.
18	Q Okay. Is that something that you looked
19	into before you well, is that something you've
20	looked into?
21	A Yes. Q Okay. And you found nothing that indicates
22	
23	what the incidence is? A There are a few studies that show incidences
24	A There are a few studies that There's no,
25	in some areas, but nothing for Denmark. There's no,
i	

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1	there's no disease registry of Parkinson's disease or
2	there's no disease regree regree regree regree anything like that where we could estimate power from.
3	about in the United States.
4	Q What about in a partial and the second sec
5	registries of Parkinson's disease.
1 6	registries of Parkinson Registries of Parkinson Q Are there some generally-accepted numbers as
-	Q Are there to be a second of Parkinsonism is amongst the to what the incidence of Parkinsonism is amongst the second states?
1 8	nonulation of human beings in the United States.
1	T T don't know. I have no laca.
1	Q Is there any generally-accepted incidence
1	0 Q Is there any so 1 rate for the occurrence of Parkinsonism or Parkinson's
1	4n Denmark?
1	A No, there's not. That was, was the beauty
1	A No, there are a second of the A No, there are a second of the hospitalization, that way we could get a
1	of using the hospitalian of what background rate in the general population of what
1	15 background lase 16 Parkinson's disease was, looking at the disease
	17 frequency of Parkinson's.
	frequency of Parkinson's disease, for hospitalization Of Parkinson's disease, for hospitalization
	19 of Parkinson's
	20 A Correct.
	21 Q disease?
	22 A Yeah.
	22 A lean. 23 Q But not necessarily finding out what the
	23 Q Bus and 24 incidence of Parkinson's disease actually is? 24 incidence of Parkinson's
	24 incidence of Farkinson's 25 A Well, that is an instance of Parkinson's

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_	ase 1:03-cv-17000-KMO Document 1862-4 Filed 08/07/2000
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1 2 3 4 5 6 7 8 9 10 11 12 13	disease. That's an unbiased incidence among the background population and among the welders. So that way we were, you know, we were comparing like to like. Q In some respects, perhaps, but we'll get to all of that in a minute. MR. SCHACHTMAN: Objection to form. Q But what I'm asking you is your incidence rate is hospitalizations in Denmark, correct? A Correct, umh-humh. Q It is not occurrences in Denmark? A It is occurrences of Parkinson's in Denmark. Q It's not all occurrences of Parkinson's disease in Denmark, is it?
14 15 16 17 18 19 20 21 22 23	study.
24	How would you design the study to about

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Page 78
1 whether or not there is an increased incidence or risk 2 of Parkinsonism in the United States?
Timb-humh. As I said, first I'd absolute
4 group of welders.
How big a group?
A As large as I could possibly find.
well. is a dozen enough?
It depends on the
the risk you're expecting to line.
- 1 what would be the magnitude of
10 Q And what would be an opinion, that you would expect to find? 11 if you have an opinion, that you would expect to find? 12 A You'd have to look in the literature and see
12 A You'd have to look in the 1100
13 what other people have reported. 14 Q And so do you have an opinion or a view on
14 Q And so do you have all opening
15 that?
16 A I don't. Q Would you do a power calculation before you
18 undertook the study?
20 calculation, I would. 21 Q Was the data available in Denmark?
22 A No. O Is the data available in Sweden?
25
24 A No. 25 Q Do you know of any country where the data is
25 Q Do you know oz v 1

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	e 1:03-cv-17000-KMO Document 1002 4 Page 79
1 a	vailable?
2	A No.
3	Q Do you know of any geographical area,
4 0	country, county, state, any geographical area where
	a t don't know of any registries of
6 I	Parkinson's disease where you could estimate an
	i makan
8	incidence rate. Q So does that mean that you won't be able to
	do, or one would not be able to do the perfect
	study with respect to Parkingon -
11	parkinsonism and welding lume exposition
	Well you could do a power calculation
13	because we know the background of hospitalization
14	a pulingon's in Denmark. So the
15	the lightions of Parkinson's disease, we have
16	legand right now. We have an estimate of
17	rould you know, if you had a similar
18	And you could you could, you could use country or similar cohort, you could, you could use
19	
20	Q And that would be a suitable rate, in your
21	opinion, with respect to hospitalization for
22	disease?
23	A Right, if that was the outcome you were
24	studying.
25	Q Are you familiar with any studies that

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Page 80 address the incidence by which Parkinson's disease is 1 not found by means of review of hospital and medical 2 records? 3 No. Α 4 If there were medical and scientific Q 5 literature published that indicated that in the area 6 of forty percent of Parkinson's disease patients are 7 not hospitalized and not captured by either hospital 8 records or medical records, would that alter your 9 opinion with respect to the reliability of medical 10 records for use in such a study in the United States? 11 If you were looking at hospitalizations of À 12 Parkinson's disease, that wouldn't alter it at all, 13 because it would be unbiased between welders and the 14 comparison population and the background population, 15 and as long as you didn't ascertain your outcome 16 differently between welders and the other -- your 17 comparison group, then there's no concern. 18 So that presupposes, as I understand it, by 19 epidemiologists that everybody's alike, if you're a 20 welder and you have Parkinson's disease and you don't 21 go to the doctor and you don't get hospitalized, then 22 you're going to behave just like the people who are 23 nonwelders who have Parkinson's disease and are not 24 hospitalized? 25

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gar way repeat, please?	
1 A I'm sorry. Can you repeat, please?	
2 Q Isn't that a lot like	
3 A It's a long	ا د
The basic premise is that we all behave the	s
5 same, whether you've got a welder and have Parkinson'	- Constitution
5 same, whether you is a same, which is a same is a same, which is a same is	Hoper Charles
7 A Right.	i i
No Has that been verified?	
A I have no knowledge of that.	
Okay. So that's an assumption?	
Right, that Parkinson's disease is similar	•
11 A Right, shall be a second of that have it behave 12 Q And that people that have it behave	
they're welders or not?	
In terms of hospitalizations, yes.	
Other than the income from performing the	
for the manufacturers in the Danish report, no	ıve
TEL roceived any other funding or montes ito.	n
18 the welding industry? A No. I'm sorry, other than my preparation	
20 for the deposition. O Yeah. What we've talked about?	
22 A Yeah. 23 Q Has anyone else at IEI published any stud	ly
Q Has anyone else at IEI publication 23	
23 24 or report in the medical and scientific literature 24 or report in the medical and scientific literature and Parkinson's	
24 or report in successful 24 or report in successful 25 dealing with welding fume exposure and Parkinson's	

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	Page 82
1	disease or Parkinsonism or movement disorders?
2	A Not to my knowledge, no.
3	Q How about has anybody at IEI other than the
4	study that is there now waiting to be published, have
5	they published anything dealing with maganesism?
6	A No.
7	Q In the year 2004, approximately what
8	percentage of your time was spent in consulting in
9	litigation?
10	A 2004. I had a little bit in January of
11	2004, and that was the only time. I'm sorry, except
12	for the November/December work I did for this. So
13	it's sporadic. It's not constant month to month.
14	Q What about IEI, what percentage of IEI's
15	efforts and endeavors are related to consulting in
16	litigation?
17	A I have no idea.
18	O Are you aware of other people who are
19	employed with or by or affiliated with IEI who provide
20	services as expert consultants and witnesses?
21	A Yes, other people at IEI do.
22	Q Okay. Who is it?
23	A Pardon me?
24	Q Who else does that?
25	A Doctor Blot and Doctor McLaughlin, I

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	Case 1:03-cv-17000-KMO Document 1602-4
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1	believe.
2	Q Okay. And are they involved in doing that
3	in welding at all other than in assisting you in
4	A No.
5	Q What areas are they experts to testify or
6	consult?
7	A I have no idea.
8	Q Do you know what percentage of their time is
9	spent in those endeavors?
10	A No.
11	Q Do you know what percentage of the research
12	that is conducted by IEI is funded in whole or in part
13	
14	A I don't know.
15	
16	6 co-authored last year
17	7 A Umh-humh.
18	Q papers, reports, whether published or
1	
2	O A Umh-humh.
2	
2	whole or in part by industry?
2	By industry? I have no 2
2	to look through my CV and tell you the numbers. O Okay. Would looking through the CV give the
2	Q Okay. Would looking through the

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1	source of the funding, or just you would look at it,
2	see it, and that would help you recall?
3	A That would help me recall. But at the end
4	of each article we acknowledge who the funders were.
5	Q That's as to published. Are all of your
6	studies published?
7	A In the last year they've been, yes.
8	O How many papers did you publish in 2004?
9	A I don't know. I'm not sure of the exact
10	number. Ten?
11	Q How many paper excuse me. How many hours
12	do you work a year?
13	A Total? I don't know.
14	Q What's your average week?
15	A Probably fifty, sixty.
16	Q How many weeks vacation do you get?
17	A We're allowed, I think it's three or four.
18	Three weeks, twenty-one days.
19	Q Are you paid a flat salary?
20	A Yes.
21	Q Is there any potential for bonus?
22	A Sometimes.
23	Q And what's the basis for any bonus?
24	A I have no idea.
25	Q Have you ever gotten a bonus?

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	Page 85
1	A Yes.
2	Q Did you get a bonus for last year?
3	A I got a small bonus, yes.
4	Q And they didn't tell you why you got it?
5	A Because they appreciated my work.
6	Q This is Pages 7 through 12, which is the
7	list; I've just given you the ones that start with
8	2004, at Item No. 36.
9	A Okay.
10	Q And if you wish, you can simply give us the
11.	number.
12	(Deposition Exhibit No. 2 was marked for
13	identification and was attached to the transcript.)
14	A Could you repeat exactly what you're asking
15	me to look for, then?
16	BY MR. CROSBY:
17	Q I'm looking for the articles from 2004,
18	since, as I understand it, they were all published.
19	A Umh-humh.
20	Q And for you to tell me which ones of those,
21	No. 36 through 53, which I think may now catch some of
22	2005.
23	A Yeah.
24	Q If it does, please let me know.
25	A Some of them are just submitted or in press,
1	

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	Page 86
1	so they're not they're 2004. It's only through 40,
2	2004.
3	MR. SCHACHTMAN: He certainly had a more
4	productive year than I did.
1	THE VIDEOGRAPHER: I'm sorry. What exhibit
	6 number is this.
1	MR. CROSBY: 2. I'm sorry.
1	THE VIDEOGRAPHER: That's quite all right.
1	a DY MD CROSBY:
	O Q Was No. 36 funded in whole or in part by any
-	1 industry source?
1	This specific paper, no.
	were there other papers that were funded in
- }	whole or in part by industry that yielded the data
1	that permitted this paper to publish?
- 1	16 A I believe so, yeah.
	Q Okay. What about No. 37?
- 1	a No.
- 1	Was there data that was yielded from a
- 1	20 previously-funded study from industry that allowed
-	21 this paper to print?
	A Not on this specific topic, no.
	Q Was it from a related topic?
	7 Yes.
	25 Q So would you agree that in whole or in part
- 1	

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C	Case 1:03-cv-17000-KMO Document 1802-4 1 1804
	Page 87
1	this paper comes about with respect to funding that
2	was provided by industry?
3	MR. SCHACHTMAN: Objection; form.
4	A In a small part.
5	Q Okay. And No. 38?
6	A Again, it's similar to 37. Some of the
7	original work from this data set was through industry
8	funding. But this specific paper, no.
9	Q Who funded this study, then?
10	A 38?
11	Q Yes, sir.
12	A I believe I would be guessing.
13	Q Okay. Please don't guess.
14	A Okay.
15	Q No. 39?
16	A 39 was part of the same funding as 38, I'm
17	sure.
18	Q So that, in part, relates back to funding
19	from breast implant?
20	A Yeah.
21	Q And were you all funded by the breast
22	implant manufacturers?
23	A I'm not sure who, who it was specifically
24	funded by.
25	whether it was their lawyers or them

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Page 88
directly or what?
A I don't know. It was, it was prior to my
joining IEI.
Q And you came there in '97?
A Yeah.
Q Were you recruited, or did you come to them?
A I came to them, yeah.
Q How did you hear of them?
A How did I hear of IEI?
Q Yes, sir.
A I knew Doctor Blot. He's a famous guy and I
wanted to work with him.
Q Where is he famous from?
A NCI.
Q The National Cancer Institute?
A Yeah.
Q What's his relationship to NIH?
A He worked there for many years. He retired
from there.
Q All right. No. 40?
A Umh-humh.
Q Was that funded in whole or in part by
industry?
A In part, yeah. The original underlying
data, but, again, not this specific paper, no.

```
Page 89
                Okay. And No. 41?
 1
           Q
                41, I don't believe was any type of funding.
 2
           Α
     I think that was a -- we used in-house funds for that.
 3
                And No. 42?
 4
          Q
                Yeah, 42 is from industry.
 5
          Α
                Was that a hundred percent?
 6
          Q
 7
                Yes, yeah.
          Α
                No. 43?
 8
          Q
                43 is a variety of sources, but part is,
 9
          Α
     part is from industry.
10
                And No. 44?
11
          0
12
          Α
                44 was industry, yeah.
13
          Q
                No. 45?
                45 is part of the papers coming from a
14
          Α
     similar data set as 43.
15
                No. 46?
16
          Q
                That was, again, in-house funding, so no
17
          Α
18
     industry.
                What is the in-house impetus for the renal
19
          Q
20
     research?
                     We were just interested. That was a
21
     topic area that Doctor McLaughlin was studying when he
22
     was at NCI, so he was just interested in continuing
23
24
     that work.
25
               So he's another NCI grad?
          Q
```

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		Page 90
1	A	Yup. So is Doctor Boice and Doctor Tarone.
2	Q	Did you have any affiliation with NCI?
3	Ä	No.
4	Q	No. 47?
5	Ä	This, this was, you know, in part, again,
6	from indu	stry.
7	Q	No. 48?
8	A	48 and 47 are the same, from the same
9	database.	
10	Q	And No. 49?
11	A	49's from that database as well.
12	Q	And that's got some industry funding, or is
13	it a hund	dred percent industry funded?
14	À	No, some, some, very some of the
15	underlyi	ng data was sponsored by industry.
16	Q	No. 50?
17	A	That was an NIH grant.
18	Q	What were the results of that one, do you
19	recall?	
20	A	Yeah.
21	Q	What was it?
22	A	People that were heavier are more likely to
23	have par	ncreatic cancer.
24	Q	How much heavier have you got to be?
25	Ä	Well, that's a good question. This study,
-		

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<u>`</u>	Page 91
1	it linked weight retrospectively, and so we didn't try to quantify weight because people lie about their past
2	14
3	weight.
4	Q So how does it help us?
5	A Pardon me?
6	Q How does it help us to know it?
7	A It's just actually, in the paper today
8	there was a story of obesity and this underlying
9	biosyndrome, they're calling it. I don't remember the
10	exact words, but increased risk for a variety of
11	health diseases, yeah.
12	Q Okay. And No. 51?
13	A 51 was part of I think some of the
14	underlying data to a similar cohort was from industry.
15	Q And No. 52?
16	A That was NIH funding.
17	Q And No. 53?
18	A NIH funding.
19	Q No. 1, of the Reviews, Case Reports?
20	veah. Was that was done in '97.
21	Q Okay. Let me move down to 20 which is
22	a wish 2004.
	200/2
23	o Right.
24	Totis see. That is a oh, that's an
25) A 200 2 3

	Page 92
1	editorial, and that was sponsored by industry.
2	Q And No. 5?
3	A I'm sorry. No, I'm sorry, I was misreading.
4	Q Okay. That's all right.
5	A Yeah. No. 4 in part, you know, some of the
6	data we based this on was by industry.
7	Q All right.
8	A But No. 5 was a study we had done for
9	industry, yeah.
10	Q And No. 6?
11	A No. 6 was a response to No. 4.
12	Q So was the data used in expressing that in
13	part provided by industry funding?
14	A It's, it's difficult. It's more of an
15	editorial, and I would say what we based our editorial
16	on was our analysis. We did the data that the
17	underlying data came from, and it came we collected
18	through monies from industry.
19	Q Books and chapters. Here you are with
20	Doctor Garabrant.
21	A Umh-humh.
22	Q The Epidemiology of Pancreatic Cancer. Was
23	that funded, the data that you used for writing that
24	derived in whole or in part funding by industry?
25	A No. That was an NCI grant.

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(Case 1:03-cy-17000-14We 2004
	Page 93
1	Q If we go to the back of Page 12, we can
2	start with 2004 again. Cosmetic and Reconstructive
3	Breast Implants?
4	A Umh-humh.
5	Q In 2004?
6	A Some again, some of the underlying data
7	to assemble that data was sponsored by industry.
8	Q And then No. 23?
9	A That is a small grant that we got from IEI
10	in discretionary monies.
11	Q No. 24?
12	A 24, I'm not sure where their funding came
13	from. It's sponsored by Kaiser. I know that there's
14	some grant process, they got the monies through that.
15	Q And No. 25?
16	A Again, some of the underlying data, to
17	assemble the data was sponsored by industry.
18	Q Okay. Now, with respect to the ones that we
19	started with, No. 41 through 53
20	A Umh-humh.
21	Q how many of those found an increased risk
22	associated with the use of or exposure to the item
23	that you were researching?
24	A 41 to 53? Q Yeah. Those are the ones we just went over.
25	Q Yeah. Those are the ones we just we

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	Page 94
	MR. SCHACHTMAN: Objection to the form.
1	
2	A Okay.
3	MR. CROSBY: Well, we can do them one at a
4	time if you want to.
5	MR. SCHACHTMAN: No, no. The problem is
6	that I'm not sure they all necessarily involve
7	exposures. Some of them are anthropomorphic measures
8	or other kinds of
9	A Some are just descriptive studies as well,
10	they're just describing the population.
11	Q Then we'll do them one at a time.
12	A Perfect.
13	Q Okay. No. 41.
14	A Umh-humh.
15	Q Did that do an assessment as to whether or
16	not there's an increased risk?
17	A Actually, the hypothesis was that statins
18	would protect you from cancer.
19	Q Okay. And what did you find?
20	A There's I think he found a small I
21	can't recall exactly, but I think he small a small
22	protective effect.
23	Q Okay. So statin is good for you insofar as
24	cancer goes?
25	A They should put it in water.

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C	Case 1:03-cv-17000-KMO Document 1862-4 Filed 05/07/2000
	Page 95
1	Q Okay. And Parkinson's disease, we'll get to
2	that
3	A Okay.
4	Q in a little bit.
5	No. 43?
6	A Umh-humh. This was, this was just a
7	descriptive paper of the type of complications that
8	you'd find after plastic surgery.
9	Q Okay. So it didn't assess whether or not
10	breast implants cause an increased risk of illness or
11	disease or anything?
12	A No. We were looking at complications that
13	were associated with the surgeries.
14	No. 44. Is working in the movie business
15	being assessed for whether or not there's a health
16	
17	A Yes. And we did find a health risk, yes.
18	Q And what health risk was it?
19	A We found an association with AIDS and
20	suicide.
21	O Is that work-related?
22	A We hypothesize that it's not.
23	Q And then No.45, the Reconstructive Breast
24	a caratation ==
25	, Voc
"	

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	Case 1:03-cv-17000-KMO Document 1862-4 Filed 08/07/2000 Tags of
	Page 96
1 2 3	Q After Mastectomy? A Here she's, she's it's a descriptive paper; again, she's just describing the outcomes.
4	Q No. 46.
5	A Umh-humh. O What is that result?
6	Tn this paper we didn't find an association
8	between antihypertensive medication and renal cell
9	carcinoma. Q Okay. So then the antihypertensive medication is okay insofar as kidney cancer goes,
11 12 13	according to this study?
13	Q No. 47?
16	and did that include the industry that
1	a la la catada?
1	9 A No.
2	
2	ar 1 harmh
2	2 A Umh-humh. 3 O What was the result there?
	she did find that people who are had
	A She did find that Form

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	Case 1:03-cv-17000-KMO Document 1002 1
1	failure. Q And was the industry that funded this in
2	Q And was the industry that I among an increased BMI?
3	
4	A No. MR. SCHACHTMAN: It wasn't McDonald's.
5	40
6	
7	Grand of Renal Failure: Results of a
8	
2	This is just a descriptive paper.
10	rssigned risk?
1:	We wore looking at demographic
1:	A No. We were roomany A No. We were roomany Characteristics such as age and sex and things like
	characteristics such as a second of the seco
1	trangplant or die, and the rates of discuss
	11.55-mont groups.
	o Did it in any way conclude whether of not
	that or entity that funded in part the
	contributing to the potential lor rendr
1	- 13 ···-0
	n No
1	Pangreatic Cancer in Residents in
1	Michigan?
	n rimh-humh.
	Was there an increased incidence there of
	25 was energy

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		Page 98
		· ·
1	-	pancreatic cancer? Was that one of the purposes of
2	2	that study? A The purpose of the study was to look at risk
3	3	A The purpose of the study was
4	4	factors that may be associated with pancreatic cancer. Okay. Did you determine any risk factors?
!	5	Q Okay. Did you determine the paper saw an association with body mass
	6	A This paper saw an association
	7	index. Q Okay. Nothing that relates it to any kind
	8	
	9	of industrial exposure? A No, we didn't look at industry exposures
1	0	A No, we didn't look do
1	.1	here.
1	12	Q No. 51?
1	L3	A Umh-humh. Q The Psychological and Social Characteristics
:	14	of Danish Women with Cosmetic Breast Implants?
,	15	2 1b
	16	A Umh-humh. Q Psychosomatics. Does it find that people
	17	Q Psychosomatics: who had breast implants were suffering from somatoform
	18	
	19	disorders? A We just again, we just described
	20	characteristics of the patients.
	21	nid you make any attribution as to wheeling
	22	or not these people have an increased incidence of
	23	or not these people have somatoform disorders as a result of their breast
	24	
	25	implants?

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Ca	ase 1:03-cy-17000-KMO Document 1862-4 Filed 00/07/2000
	Page 99
1	A It was just a descriptive paper. We didn't
2	have a comparison population.
3	Q Okay. Seriom Serum DDE and Risk of
4	Pancreas Cancer?
5	A Umh-humh.
6	Q Was there an association?
7	A Yes.
8	Q Where does one find serum DDE?
9	A Everywhere, in your food, in the
10	environment, in water.
11	Q Does
12	A Everyone's been exposed to it.
13	Q It's ubiquitous?
14	A Absolutely.
15	Q Is it a manmade ubiquitous chemical?
16	A Yes.
17	Q Is it one with which we could do without if
18	we wished to remove it?
19	A I would say no.
20	Q And then No. 53, Use of Non-Aspirin NSAIDS
21	and Risk of Lung Cancer,
22	A Umh-humh.
23	Q What did that?
24	A The goal of that study was is through an
25	NCI-sponsored study to see if NSAIDS can protect you
1	

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	Cas	se 1:03-cv-17000-KMO Document 1602-4 1
		Page 100
1		against lung cancer.
2	<u>.</u>	Q And what did you find?
3	3	A The study, I think I believe I found no
4	1	protection. I, I can't recall exact specifics.
[and speaking of lung cancer, in a consist
	6	American males who don't smoke, the relative risk is
	7	American males was one. What is the relative risk of a population of
	8	- wisan men who do smoke?
	9	A I don't know exactly what that risk would
1	0	be.
1	1	Q What excess incidence or what fold risk or
1	2	percentage of increased risk do you expect to see of
1	L3	lung cancer in human beings that smoke over human
1	L 4	beings that don't?
1	15	A I don't know.
	16	Q What about over the general population?
	17	A The excess risk?
	18	Q Yes, sir.
	19	A It's not something I've studied.
	20	Q Okay. What about so you wouldn't have a
	21	view one way or the other with respect to one-pack-a-
	22	day or two-pack-a-day smokers over the general
	23	population in the U. S.?
	24	A Right.
	25	Q What about in Denmark?

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	Case 1:03-cv-17000-KMO Document 1802-4 1 lind 0 5			
<u> </u>	Page 101			
1 2 3 4 5 6 7 8	A In, in our paper we, we looked at the prevalence of smoking among the welders and among the general population, and found them both to be around fifty percent, fifty-three percent. Q Half of them smoked? A Yes. Q Now, then, did you study what the incidence of lung cancer was in Denmark with respect to nonsmokers as opposed to smokers?			
10	T did not study that, no.			
11	Q Are you familiar with whether or not the			
12	data in Denmark are consistent with the data in the			
13	3 U.S.? 4 A I, I I'm not sure what the data in the			
1	A I, I I'm not sure what the			
1	U. S. is or Denmark, so it's not something I've			
1	6 studied.			
1	7 Q Have you ever heard that the risk of			
1	8 smoking or smoking increases your risk of good smoking or smoking increases your risk of good smoking your risk of good your risk of g			
1	9 contracting lung cancer by at leave			
2	tenfold? MR. SCHACHTMAN: Objection to form.			
2	There not heard those exact words.			
2	thing similar to it?			
;				
	A Yes. 25 Q What have you heard that's similar to that?			
	25 Q What have you hours			



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	Case 1:03-cv-17000-KMO Document 1862-4 Filed 08/07/2000 1 agr			
Γ			Page 102	
	4	A	Smoking increases your risk of lung cancer.	
	1	Q	But by how much you don't know?	
	2	Q A	No.	
	3	A	THE VIDEOGRAPHER: Gentlemen, I'm sorry.	
	4	Walre goi	ng to have to change the tape.	
	5		Here ends Tape No. 1 in the deposition of	
	6 7	John P. F	ryzek, Ph.D. We are going off the record.	
	8		is 11:33 a.m.	
	9	1110 02	(Discussion off the record.)	
	9 L0		THE VIDEOGRAPHER: Here begins Tape No. 2 in	
	11	the depo	sition of John P. Fryzek, Ph.D. We are back	
	12	on the r	ecord. The time is 11:40 a.m.	
	13	BY MR. C	ROSBY:	
	14	Q	Doctor, you still doing all right?	
	15	A	I'm fine.	
	16	Q	Okay. When did Doctor Blot leave NIH? Or	
	17	was he N	ICI, or NIH, or both?	
	18	A	It's NCI is a branch of NIH.	
	19	Q	Okay.	
	20	A	I think he left in '94, but I'm not sure.	
	21	Q	And when did Doctor McLaughlin leave?	
	22	A	At the same time. They left to form IEI.	
	23	Q	To form the business?	
	24	A	Yeah. And Doctor Blot retired.	
	25	Q	Did Doctor McLaughlin retire?	
	Į .			

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		00-KMO Document 1862-4 Filed 00/07/2000 Page 103
1	A	No.
2	Q	Have you ever heard of a
3	neuroepid	lemiologist?
4	A	I don't know any.
5	¹ Q	Have you ever heard of the term?
6	A	No.
7	Q	Your affiliation with Vanderbilt, I want to
8	talk abou	at that a little bit. All right?
9	A	Okay.
10	Q	What is your responsibility with Vanderbilt?
11	A	Currently it's just working on grants.
12	Q	And what does that mean?
13	A	Managing grants or the research that's going
14	on aroun	d grants, writing reports or not reports,
15	but scie	ntific articles, things like that.
16	Q	Are you paid by Vanderbilt?
17	A	Yes.
18	Q	Okay. What is your salary from Vanderbilt?
19	A	I don't wish to disclose that.
20	Q	Does that salary come directly to you?
21	A	Yes.
22	Q	Are any of the papers that you've published
23	that ar	e on your CV included in what's funded through
24	Vanderb	ilt?
25	Α	Yes.

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		Page 104
1	Q	Were any of the ones that we just went
2	through fo	r the year 2004?
3	A	Yes.
4	-	Which ones were those?
5	A	Actually, I don't think 2004, but the ones
6	that have	been submitted.
7	Q	Okay. All of them?
8	Α	No.
9	Q	Okay. What department are you affiliated
10	with?	
11	А	Medicine, Department of Medicine.
12	Q	And what do you do? Do you teach?
13	А	Not at this time.
14	Q	Did you used to teach?
15	A	I used to teach, yes.
16	Q	At Vanderbilt?
17	A	No.
18	Q	Okay. How long have you been affiliated
19	with Vande	
20	A	I think it's been two years.
21	Q	And is there a term limit on how long you
22	will be a	ffiliated with them?
23	A	Not to my understanding.
24	Q	Do you have any kind of employment contract
25	or agreem	ent with them?

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		Page 105
1	A	I, I don't have anything that I've signed,
2	no.	Okay. Have they submitted something to you
3	Q	Okay. Have they submitted semi-
4	to sign?	
5	A	I can't recall.
6	Q	Do you have an employment contract with IEI?
7	A	In terms of a formal signature, no.
8	Q	Do you have anything that provides you with
9	your job	description and duties and
10	responsit	oilities
11	A	No, I don't.
12	Q	with IEI?
13	A	Ño.
14	Q	Do you have any kind of written
15	understa	nding with them?
16	А	Nothing written, no.
17	Q	Do you have any kind of oral understanding
18	with the	m?
19	A	Yes.
20	Q	What is your oral understanding with them?
21	A	With
22	Q	IEI?
23	A	IEI? That I would work as a researcher.
24	Q	Okay. Does it involve what you would get
25	paid as	a salary?
	-	

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		Page 106
1	A	My salary, I would be paid for doing
2	research,	yės.
3	Q	And what is your salary with IEI?
4	A	I don't wish to disclose that.
5	Q	I understand that. Are you refusing to?
6	A	I would not like to.
7	Q	I know. There are a lot of things that we
8	don't lik	e to do.
9	A	I don't feel I need to.
10	Q	I don't like to strip down in a hospital,
11	but somet	imes I have to.
12	A	Umh-humh.
13	Q	So are you refusing to do that?
14	A	Yes.
15	Q	Okay. And are you refusing to disclose your
16	income f	rom Vanderbilt?
17	A	Yes.
18	Q	And what about any other source of income?
19	А	Yes.
20	Q	Do you have any other sources of income?
21	А	Personally, no.
22	Q	Is there a means by which you would have a
23	source c	of income that is not personal?
24	A	My wife works as well.
25	Q	Oh, all right. She might consider that her

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	Page 107
1	incomé?
2	A She does.
3	MR. SCHACHTMAN: The State of Maryland might
4	consider it their both.
5	Q Is your position with IEI a full-time
6	position?
7	A Yes.
8	Q And
9	A It's a combination with IEI/Vanderbilt.
10	Q How does that work now?
11	A A percentage is IEI, a percentage is
12	Vanderbilt. So a percentage of my salary comes from
13	IEI and a percentage comes from Vanderbilt.
14	Q So are you a joint project between IEI and
15	Vanderbilt?
16	A I don't understand joint project.
17	Q Well, I don't understand what the
18	relationship is. Does IEI have an agreement with
19	Vanderbilt?
20	A An agreement in?
21	Q In any way.
22	A Part of my salary comes from IEI, so I have
23	a percentage appointment at Vanderbilt.
24	Q Well, do Vanderbilt and IEI get together on
25	how much you're going to get paid?

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Page 108 That simplifies it. It depends on what Α 1 research is funded and what projects I'm working on, 2 that determines how much I get from Vanderbilt. 3 How about just explaining it to me, keeping 4 in mind that I have trouble understanding a lot of 5 stuff here. But how about trying to explain it to me, 6 and I will try to understand the nature of the 7 relationship between IEI and Vanderbilt and you and 8 IEI and Vanderbilt. 9 I have some projects that I work on Α 10 strictly for IEI and some projects that I work on 11 strictly for Vanderbilt, and the percentage of time 12 that I work on each of those projects dictates my pay 13 from those two sources. 14 With respect to the welding study --Q 15 Umh-humh. Α 16 -- was any of that Vanderbilt related? Q 17 No. Α 18 With respect to studies that are part IEI 19 and part Vanderbilt, how do you keep up with how much 20 you've spent doing for IEI and how much you've spent 21 doing for Vanderbilt? 22 I -- I've -- my -- personally, we don't 23 divide studies like that, it's either an IEI study or 24 a Vanderbilt study. So. . 25

	Page 109
1	Q What percentage of your time is Vanderbilt
2	related?
3	A At this time I think it's it changes
4	depending on what point in the projects we're at. So,
5	you know, if they need more help or if they need
6	analytical work or things like that, then I spend more
7	time there and I get paid more for that. So I believe
8	it might be twenty percent now, I think.
9	Q Do they pay you an hourly fee?
10	A No.
11	Q How is the compensation reached?
12	A It's you know, they have a base fee and
13	then they have a percentage of that. It's a monthly
14	payment.
15	Q Is there any kind of formal understanding
16	between IEI and Vanderbilt with respect to your duties
17	and responsibilities with either place?
18	A Other for Vanderbilt, my duties are
19	specified in the grants they write. So if I'm on a
20	grant it tells specifically what my duties are for
21	that grant.
22	Q And does IEI approve whether or not you can
23	undertake that?
24	A Approve approve, yes, I would say
25	approve.

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	Case 1:03-cv-17000-Rivio
	Page 110
1	Q So if IE let's put it this way and just
2	clarify me if I'm wrong.
3	A Umh-humh.
4	Q You work for both IEI and Vanderbilt?
5	A Umh-humh.
6	Q And you do independent work or work
7	independently of each on studies that you're doing for
8	one or the other?
9	A Right.
10	Q But if IEI needs John Fryzek to do
11	something
12	A Umh-humh.
13	Q and what Vanderbilt is proposing that you
14	do is going to conflict with it, IEI has first call?
15	A Oh, I have no idea. That that's not been
16	the case.
17	Q Do you submit to Mr. Blot or anybody or
18	Doctor Blot or anybody at IEI what the proposal is for
19	you to do at Vanderbilt?
20	A No. I've written into proposals that other
21	people have written.
22	Q Well, what is your understanding that will
23	make sure that you don't wind up spending all your
24	time doing Vanderbilt work while IEI is paying you?
25	A The work is allocated in a manner that that

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	Page 111
1	won't happen. You know, if, if I feel like I'm
2	spending too much time on one project I can go to them
3	and tell them.
4	Q And is that association with Vanderbilt
5	throughout IEI, or are you the only one that has that
6	deal?
7	A Some people at IEI are affiliated with
8	Vanderbilt and some people are not.
9	Q Which ones are affiliated with Vanderbilt?
10	A Doctor Blot, Doctor McLaughlin, Doctor
11	Boice, Doctor Tarone, I believe, and Doctor
12	Signorello.
13	Q And do all of you all have that same
14	arrangement insofar as IEI compensation and Vanderbilt
15	compensation?
16	A I don't know about their compensation, only
17	my own.
18	Q Are those studies that are Vanderbilt
19	studies the NIH grant studies?
20	A Most of them, yes.
21	Q Are any of them studies funded by industry?
22	A No.
23	Q Who's head of the medical school at
24	Vanderbilt?
25	A I have no idea.

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	Case 1,00-07 17 000 7 and
	Page 112
1	Q Do any of the IEI personnel that are
2	affiliated with Vanderbilt teach at Vanderbilt?
3	A IEI did offer a course last summer at
4	Vanderbilt, yes.
5	Q And what was the name of the course?
6	A Let me see if I can recall. It was
7	Biomarkers in Epidemiology. I don't remember the
8	exact name of the course.
9	Q Are any members of IEI regular members of
10	the faculty that offered normal courses taught at
11	Vanderbilt?
12	A I don't know. But it's my understanding
13	that eventually we will teach courses at Vanderbilt,
14	that is the direction.
15	Q Do you all have any other affiliation with
16	any other university or college or teaching
17	institution similar to that that you have with
18	Vanderbilt?
19	A I don't, no.
20	Q Are you aware of anyone at IEI that does?
21	A I'm not aware.
22	Q Do you all talk to each other up there?
23	A We try.
24	Q The papers that you're doing for Vanderbilt,
25	do they get proofed or reviewed by IEI personnel?
ı	

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	Vase 1.00 CV 11 COURSE
	Page 113
1	A If the IEI personnel are working on the
2	project.
3	Q Have you ever had a paper that you did
4	for that's Vanderbilt affiliated that did not have
5	someone else from IEI on it?
6	A I don't think so.
7	Q Is it Doctor Blot or Doctor McLaughlin who
8	usually co-author on them?
9	A Doctor Blot, yes.
10	Q Have you ever applied to be a professor or
11	instructor at Vanderbilt or any other teaching
12	institution?
13	A I, I was assistant professor at University
14	of Nebraska Medical Center.
15	Q And when was that?
16	A 1996.
17	Q Since then, have you applied for any
18	position as an instructor or teacher or professor at
19	any other institution?
20	A No.
21	Q I don't know if I asked this. Did you ever
22	attend any medical school?
23	A No.
24	Q Did you apply?
25	A No.
1	

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	n (14
	Page 114
1	Q Have you ever been to any Parkinson's
2	disease or movement disorder clinic in the United
3	States or Denmark?
4	A No.
5	Q Do you have an opinion whether or not
6	Parkinson's disease or Parkinson's syndrome is a
7	treatable condition?
8	A I have no opinion.
9	Q How often do you go to Vanderbilt?
10	A Not very often.
11	Q What's not often to you? As an
12	epidemiologist, you know it's all relative.
13	A Absolutely. Maybe once a year. But as I
14	stated, my understanding is that will change.
15	Q What is the expected change?
16	A I will start offering coursework at
17	Vanderbilt.
18	Q You will?
19	A That's my understanding.
20	Q Well, have you applied for the position?
21	A It's not a new position. It's part of the
22	duties that we've already
23	Q Well, did somebody else cut this deal and
24	they're just letting you know that that's what you're
25	expected to do?

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	Page 115
1	A No.
2	Q Okay. So how did it come about?
3	A It it's my understand I don't have
4	firsthand knowledge of this. It's my understanding
5	that eventually coursework in epidemiology will be
6	offered at Vanderbilt and that potentially we will be
7	involved in teaching that.
8	Q And who gave you that understanding?
9	A Doctor Blot.
10	Q Okay. And when is that supposed to be
11	implemented?
12	A I don't know.
13	Q Does anyone at IEI currently serve as an
14	instructor, teacher, professor, or any position of, I
15	guess, instruction at any university, college, medical
16	school, or teaching facility?
17	A I know that Doctor Boice, Doctor Blot and
18	Doctor McLaughlin all have I think even Doctor
19	Tarone have adjunct appointments at various
20	universities.
21	Q Well, does IEI have a school?
22	A No.
23	Q You all don't have a teaching facility where
24	you all teach people?
25	A No. It's very similar to the NCI or NIH,

EX 5-115

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		Page 116
1	it's a res	search organization.
2	Q Q	Okay. But NCI and NIH are not for-profit.
3		-profit, isn't it?
4	A	Right. But you asked me about teaching.
5	Q	Right. But so what I'm trying to figure
6	out is thi	is. When I look at IEI it often refers to
7		or example, faculty.
8	À	Umh-humh.
9	Q	Whose idea was it that employees of IEI
10	would be	called faculty?
11	A	I have no idea. That was not my decision.
12	Q	Do you know why they chose that term?
13	А	No.
14	Q	When you introduce yourself to colleagues or
15	you're in	troduced to colleagues in Denmark, are you
16	introduce	d as a faculty member of IEI?
17	A	No.
18	Q	But you hold yourselves out at IEI as being
19	faculty m	embers, right?
20		MR. SCHACHTMAN: Objection to form.
21	A	I don't.
22	Q	It's on the website.
23	A	I, I have no control over what's on the
24	website.	
25	Q	Is that something you'd rather not be there?
- [

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C	Case 1:03-cv-1/000-KMO Document 1652
	Page 117
1	MR. SCHACHTMAN: Objection.
2	A I have no feelings one way or the other. It
3	does not bother me.
4	Q Does IEI have a mission statement?
5	A Nothing that they've printed and given to
6	me.
7	Q Have they given you one orally?
8	A No.
9	Q When an article says that it is, quote,
10	funded, closed quote, by IEI, what does that mean?
11	A I don't know unless you tell me the article
12	and in what context.
13	Q Okay. So the phrase funded by IEI can mean
14	different things
15	A Absolutely.
16	Q depending on the context?
17	A Yes.
18	Q What other well, have we gone over the
19	different industries, or all the different industries
20	that IEI currently receives funding for research on?
21	A I don't believe so.
22	Q Okay. Which ones are there that we haven't?
23	A Let's see. We've done work for Boeing,
24	Lockheed Martin. I said the National Institutes of
25	Health. The government of Sweden. Deluxe Studios.
1	

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Case 1:03-cv-17000-KMO Document 1862-4 1 Red 6677-2000].
	Page 118
1 The government of France. And I think t	hat's all I
2 can recall right now.	what's
3 Q The data that deals with this	study, what s
4 been provided to me, in essence, is - and the state of	nd II I leave
5 something out, let me know, I don't thin	nk I will - 18
6 a letter to the editor of the journal.	Provinces and the second
7 Umh-humh.	CATALOG REPORTED TO THE PROPERTY OF THE PROPER
8 Q With your comments concerning	suggestions
9 and changes with an attached draft.	WAGERS COMM
10 A (Nodding.)	
11 Q Your proposal to the industry	-
Umh-humh.	AND THE PERSON
12 A Omn Humm. 13 Q Your agreement with your Dani	sh cohort.
7 Yes.	
15 Q Your or colleagues, I supp	pose, although
16 they'd be a cohort too, wouldn't they?	
T guess, ves.	T horro
17 A right of the second of th	all that I have.
19 Is that all that you have?	
That's all.	- 1
20 MR. SCHACHTMAN: Mr. Crosby,	I believe that
T pont to VOII ==	
MR. CROSBY: That's what I c	an't remember.
MR. SCHACHTMAN: the ques	stionnaire.
MR. CROSBY: Yes. You know,	that is great.

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1		
_	I'm glad	you brought that up.
2		MR. SCHACHTMAN: In Danish.
3		MR. CROSBY: Yes. Well, I was going to ask
4	you. Let	me show you No. 3.
5	_	(Deposition Exhibit No. 3 was marked for
6	identific	ation and was attached to the transcript.)
7	BY MR. CR	osby:
8	Q	I've marked that as Plaintiff's Exhibit No.
9	3.	
10	А	Okay.
11	Q	Could you tell us what that is, please?
12	Ā	This is the questionnaire that was
13	administe	ered to the welders in 1985 or '86.
14	Q	Is that in what language is that in?
15	don't, I	don't doubt my colleague. I just
16	А	It's in Danish.
17	Q	It's in Danish?
18	A	Yeah.
19	Q	He might speak it for all I know. Do you?
20	. A	No.
21	Q	You do not?
22	A	I can say hello.
23	Q	What is hello in Danish?
24	A	Goddag.
25	Q	Sounds like good night, doesn't it?

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	ase 1:03-cv-17	Page 120
1	А	Good day.
2	Q	So do you have a translation of this?
3	Ά	I don't. To my knowledge, there's no
4	translat	ion to this questionnaire.
5	Q.	And you're not able to translate it?
6	А	Right.
7		MR. SCHACHTMAN: Ya is yes and nej is no.
8	Q	So did you undertake any effort to ascertain
9	the qual	ity of the information sought by the
10	question	naire other than what's in the article that's
11	publishe	ed?
12	A	Yeah. That was done by the researchers in
13	186.	
14	Q	Okay. Was there
15	A	Doctor Hansen.
16	Q	Was there any effort in your paper before or
17	during t	to do any follow-up with respect to another
18	question	nnaire?
19	A	No.
20	Q	So your reliance on the response to the
21	questio	nnaire in '86, as reflected in the '86 study,
22	is what	you relied on with respect to the information
23	that ca	me from the questionnaire in your Danish welder
24		or industry?
25	A	Right.
1		

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C	ase 1:03-cv-17000-RMO Boothtom
	Page 121
1	Q The data that was used that's in the
2	registries, how does one go about, if one wants to,
3	accessing that data that you had access to to assess
4	the content of the data?
5	A Umh-humh. First, I personally didn't have
6	access to the data.
7	Q Right.
8	A Our Danish colleagues did.
9	Q Umh-humh.
10	A The first thing you would do would be to
11	write an application to the Danish government, a part
12	of the government that's called the National Board of
13	Health and Welfare, and you go through an approval
14	process to use the data.
15	Q Okay. So the approval process is to use the
16	paper use the data but not access it?
17	A Right.
18	Q Okay. Who is the person that controls the
19	registry?
20	A I have no idea. It's a government official.
21	Q So help me out here. If what I wanted to do
22	was have someone competent to do it look at the
23	underlying data to be sure that nobody missed anything
24	when it came to the compilation and preparing the
25	summaries, the only - and tell me if I'm wrong - the

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Ċ	ase 1:03-cv-17000-KMO Document 1862-4 Filed 65/67/2000
	Page 122
1	person that I designate couldn't have hands-on access
2	unless the person I designate is whom?
3	A First, you couldn't have access because
4	you're not Danish.
5	Q Right.
6	A So you need a Dane.
7	Q Okay. There's nothing like a Dane.
8	A Yes.
9	Q So we've got to get someone who is Danish.
10	And is there a particular group of Danes that has
11	agone to it?
12	A Yeah. The employees at the National Board
13	of Health and Welfare.
14	Q And are they able to share any of the
15	information that they get?
16	A If, if you have approvals.
17	Q Okay. And can they share the underlying
18	data? Could they give me a, for example, a run of all
19	six thousand people, in round numbers, that were in
20	study and give me all of their, their individual
21	and respective ages and all their information about
22	their hospitalizations without their names:
23	A The data cannot leave the country.
24	Q I understand that. Whoever is going to do
25	this goes over there and
1	

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		Page 123
	1	A Umh-humh.
ļ	2	Q camps out at that place. If they wanted
	3	to, could they
	4	A The people could give you that, yeah.
	5	Q So that's something you could have had
	6	access to?
	7	A We did have access to it.
	8	Q Okay. But as I understood it, you didn't,
	9	you didn't personally oversee that data?
	.0	A Right. When I say we, I mean myself and the
1	1	colleagues on the paper.
1	L2	Q And by the colleagues on the paper you mean
	13	the Danish groups?
	14	A Right.
	15	Q Okay. Did they undertake any independent
	16	verification or random sampling of the data summaries
	17	to ascertain that the data summaries correctly
i	18	reflected the underlying data?
-	19	A Yeah, that's a good question. I know they
	20	do go through a verification process. I'm not sure
	21	exactly what that entails, but I know that's part of
	22	their protocol.
	23	Q Did you oversee that?
	24	A I did not, no.
` \	25	Q Aren't you the lead author on this?
- 1		

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EX 5-123

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C	ase 1:03-cv-17000-kivio Doddinoik 1352
	Page 124
1	A Absolutely, yeah.
2	Q Okay. So you don't know what the process
3	is, but you feel comfortable that there is a process?
4	A Umh-humh.
5	Q And that process, do you know whether or not
6	it was actually undertaken?
7	A Yes.
8	Q Who did it?
9	A I don't know.
10	Q So how do you know
11	A My Danish colleagues did it.
12	Q How do you know that they did it?
13	A Because they're our collaborators and I
14	trust their word.
15	Q So they told you they did it?
16	A Umh-humh.
17	Q And how did they tell you they did it?
18	A Verbally.
19	Q No. I mean, what did they tell you they did
20	in order to do it? Did they explain to you the
21	process
22	A No.
23	Q of verification?
24	A No, no.
25	Q So you don't know what they did?

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	Page 125
1	A Right.
2	Q You just trust them?
3	A Absolutely, yeah.
4	Q So if I want to have somebody undertake that
5	same process, then I would retain a Dane?
6	A Umh-humh.
7	Q And
8	A First you apply to the Board.
9	Q Well, the Dane would get the permission,
10	wouldn't he?
11	A Right. Well, maybe.
12	Q Okay. Well, the Dane applies well,
13	they've got a big problem over there, right? Isn't
14	that one of their big problems, they're worried about
15	all this data they've got and whether or not who can
16	access it and how they can access it?
17	A I don't understand.
18	Q Isn't that a concern of the Danish people,
19	that their public that their lives will become
20	public?
21	A I don't know.
22	Q You're not aware of the studies and the
23	articles written by the people in Denmark who are
24	worried about all these registries and the potential
25	for abuse?

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	Case 1:03-cv-17000-Rivio Beeding 1
	Page 126
1	A I, I personally I don't know.
2	Q Okay. So I get a Dane who's qualified and
3	competent, that person applies; if he gets or she gets
4	approval, then he or she can then go do whatever
5	verification process you understand and believe that
6	your colleagues did?
7	A Yes.
8	Q How long does that process take? I'm
9	talking about the approval process.
10	A Oh, I don't know. One to two one to
11	three months maybe.
12	Q What about the summaries, were you able to
13	take those with you?
14	A I took the tables with me that are in the
15	paper.
16	Q The three tables in the paper?
17	A Yeah.
18	Q But what about the summaries you used to put
19	the tables together?
20	A No. I didn't take those, no.
21	Q Okay. How much
22	A I looked at those when I was in Denmark,
23	yeah.
24	Q Are they able to leave?
25	A I don't know. I believe not.
1	

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C	Case 1:03-cv-17000-Kivio Bocument 1992
	Page 127
1	Q How much more extensive were the data that
2	you looked at as opposed to the data reflected in the
3	tables?
4	A The data that I looked at personally were
5	the data in the tables.
6	Q Okay. So
7	A I didn't look at any other data besides what
 8	was in the tables personally.
9	\mathtt{Q} All right. So then as far as it goes -
10	again, tell me if I'm wrong - when I'm looking at your
11	Tables 1, 2 and 3 in the paper that has been provided,
12	I'm looking at the very same data that you looked at?
13	A Absolutely, yeah.
14	Q You saw nothing more than I saw?
15	A Right.
16	Q And from those data you constructed that
17	paper?
18	A Yes.
19	Q Do you know Doctor Goldman?
20	A No.
21	Q Do you know Doctor Tanner?
22	A No.
23	Q Do you know of any agreement between IEI or
24	you and the welding industry other than what is
25	reflected in the proposal that was drawn up between

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C	Case 1:03-cv-17000-RWO Bostmont 100-
	Page 128
1	IEI and the welding industry?
2	A No.
3	Q Well, other than being you being a
4	witness?
5	A Right.
6	Q And is any of that written down?
7	A No.
8	Q Are you familiar with something called the
9	Franklin Report?
10	A No.
11	Q The study that you did for the welding
12	people in the welding industry in what was it, in
13	2004 pretty much, right?
14	A Yes, yeah.
15	Q Were those data pretty much available in
16	1986? I mean, other than obviously the birth hadn't
17	been there until '86, but the same data available?
18	A I'm not sure when the data were available.
19	Q Well, if we look at Doctor Hansen's study,
20	which was '96
21	A Umh-humh.
22	Q does it indicate how long the data had
23	been available?
24	A I don't recall.
25	Q I think when we were off the record you
1	

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U	436 1.00 Ot 17 9 5	10-KMO Document 1002 4
		Page 129
1	indicated	that the Danish people have been keeping
2	records al	oout everybody's health since when was it?
3	A	Oh, not everyone's health. Everyone's
<i>3</i>		and births.
5	Q	When did they start the registries,
	do you kn	
6 7	A	The registries for health?
,	Q	Yes, sir.
8 9	A	The hospitalization registry started in
	1977.	•
10	1977. Q	Okay. So from in 1986, could there have
11		cally about a ten-year study?
12	Deen basi	On?
13	Q	Hospitalizations.
14	Q A	Yes.
15	Q	Okay. And by 1990, roughly a fifteen-year
16		
17	study? A	Umh-humh.
18		195 or 197, a twenty-year study?
19	Q A	Right.
20		Do you know of anybody that ever undertook
21	Q	
22	to do th	No.
23	A	Do you know why they didn't?
24	Q	No, I have no idea.
25	A	190, 1 1100

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C	ase 1:03-cv-17000-kivio Boodinari vos
	Page 130
1	Q There were case reports in existence in '86,
2	were there not, of
3	A I'm not sure of the dates of the reports.
4	Q If there were, would that be an indication
5	that such a study would have merit?
6	MR. SCHACHTMAN: Objection; incomplete
7	hypothetical.
8	A I'm not sure what the reports were.
9	Q If they showed that people who were exposed
10	to welding fumes were suffering from movement
11	disorders who were welders, would that indicate that
12	such a study would have
13	MR. SCHACHTMAN: Objection to form.
14	Q purpose?
15	MR. SCHACHTMAN: Same objection.
16	A I don't believe that case reports always
17	justify a study.
18	MR. SCHACHTMAN: Want a take a lunch break?
19	MR. CROSBY: Yeah, why don't we do that. If
20	that suits everybody, we can break now and I can
21	organize.
22	THE VIDEOGRAPHER: We are going off the
23	video record. The time is 12:14 p.m.
24	(A luncheon recess was taken at 12:14 until
25	1:17 p.m.)

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	Page 131
	THE VIDEOGRAPHER: We are back on the video
1	
2	record. The time is 1:17 p.m.
3	BY MR. CROSBY:
4	Q Doctor, did you have a good lunch?
5	A Yes.
6	Q Did you have an opportunity to or did you
7	take the opportunity to check on increased risk of
8	lung cancer from cigarette smoking during lunch?
9	A It didn't occur to me to check for that.
10	Q Okay. Let's go back to the
11	MR. SCHACHTMAN: There was no smoking at
12	lunch.
13	Q Let's go back to the dream study that I
14	talked about earlier on.
15	A Umh-humh.
16	Q What would be your outline generally,
17	without just giving any numbers or anything, generally
18	what would be an ideal epidemiological study to
19	ascertain increased risk, if any, of to any disease
20	from any substance where the occurrence rate in the
21	general population is, say, two or three per hundred
22	thousand?
23	MR. SCHACHTMAN: Objection to the form. You
24	can answer.
25	A The ideal study for any disease is a

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	1
	Page 132
1	randomized controlled trial.
2	Q And how would you do that when it comes to
3	something like welding?
4	A You could randomly assign people exposure to
5	welding fumes or not, and follow them over time to see
6	if they develop Parkinson's disease.
7	Q I mean, that's using humans as guinea pigs.
8	A That's my dream study.
9	MR. SCHACHTMAN: Objection to form.
10	Q I see.
11	A If you really want to know the answer to the
12	question.
13	Q Aside from doing that, what is the way that
14	we could or you could ascertain whether or not
15	welding fumes increases the risk of Parkinson's
16	disease in welders or Parkinson's let's try to get
17	some terms straight.
18	A Okay.
19	Q I think we've been saying the same thing all
20	along, but I don't know. When I've been saying
21	Parkinson's disease, have you been restricting it in
22	your mind to just idiopathic Parkinson's disease, or
23	do you include the panoply of Parkinson's syndrome?
24	A In my mind it's only Parkinson's disease.
25	Q Okay. And what about Parkinsonism, what
1	

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Page 133 does that mean to you? 1 That's a different disease. Α 2 Okay. Would you do the study differently 0 3 for Parkinson's disease than Parkinsonism? 4 No. Α 5 Okay. So would the questions that I've 0 6 asked that have just utilized the term Parkinson's 7 disease in your answers include Parkinsonism? 8 I would study any disease, the best design Α 9 would be a randomized control trial. 10 In the Danish study were you studying 11 Parkinsonism, Parkinson's disease, or movement 12 disorder? 13 If you look at Table 2 it tells you all the Α 14 diseases we looked at. The main focus was Parkinson's 15 disease. 16 Okay. 0 17 But we look the at some other 18 neurodegenerative diseases. 19 So what would be your study for finding Q 20 whether or not there is an increased risk for 21 welding -- or, excuse me, for Parkinsonism or 22 neurological deficits for Parkinson's disease from 23 welding fumes? 24 The next best state of design, if you Α 25

	Page 134
1	couldn't do a randomized controlled study, would be a
2	cohort study.
3	Q And how would you fashion that study?
4	A I'd identify a group of welders, ascertain
5	their exposure status, and then follow them over time,
6	see who developed Parkinson's disease. You can either
7	do it with only welders or you could use a similar
8	group of people not working in welding that have
9	similar characteristics.
10	Q If you just used a group of welders for your
11	cohort, would you call that a cohort?
12	A Yeah.
13	Q Would you compare it with anything?
14	A You could compare it with you know, if
15	you had industrial hygiene measures you could either
16	look at people who are higher exposed to lower exposed
17	based on however you had those exposure measurements.
18	Q Would you compare it to another population?
19	A You could do that if you had if you were
20	able to ascertain Parkinson's disease in a similar
21	manner in both populations, that would be fair.
22	Q Is there a way to do that in the United
23	States in any geographical area of which you are
24	familiar?
25	A I don't know.

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	<u>-</u>	Page 135
1	Q	Is that anything that you've explored?
2	А	To do it in the U. S.?
3	. Q	Yes, sir.
4	A	No.
5	Q	Has anyone asked you to explore that?
6	A	No.
7	Q	You have a Swedish proposal?
8	A	Yeah.
9	Q	Was that well, whose idea was that?
10	A	Doctor Blot's.
11	Q	Is there a reason that he suggested doing
12	the Swedi	sh proposal?
13	A	I don't know his reasons for it.
14	Q	Do you think it's a good idea?
15	A.	Sure.
16	Q	Do you think it will provide helpful data in
17	assessing	an increased risk or not of Parkinsonism or
18	movement	disorders amongst welders?
19	Α	Yeah. It's always good to confirm your
20	hypothesi	s in other populations.
21	Q	In your ideal or dream study, would you have
22	a control	
23	A	In my ideal study with unlimited resources,
24	yeah.	
25	Q	And how big would it be?

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	Page 136
1	A It would depend on the rate of diseases in
2	the populations.
3	Q Assume, again, that it's approximately three
4	per hundred thousand per year.
5	A I can't do those calculations without
6	looking at the you know, a formula and having my
7	calculator. So that would be difficult for me to, to
8	do.
9	MR. SCHACHTMAN: Doctor Fryzek, can I ask
10	you to keep your voice up?
11	THE WITNESS: Okay.
12	BY MR. CROSBY:
13	Q Would you want the population to be the same
14	size as the exposed population?
15	A Again, it would depend on the rates of the
16	
17	Q At what rate would you want it to be the
18	same size and at what rate would you not care if it
19	
20	
21	Q How would you ascertain exposure levels?
22	
23	
24	
25	A Yeah. One thing you could do is what we did

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Page 137 in our paper, is look at duration of welding, how many 1 years they, they worked as a welder. You would assume 2 that people who worked longer would have higher 3 exposure, cumulative exposure. 4 And did your study include anyone who ever 5 welded? 6 It included people who welded, yeah. That Α 7 were welding in a company, employed as a welder, 8 absolutely. 9 For any period of time? 10 I'm not sure of the minimum period of time 11 that they were employed as a welder. 12 Would that be of significance? 13 Q Typically, if you want to look at, you know, Α 14 levels of exposure, you would need to know that 15 information. 16 And if you wanted to assess whether a given 17 population in a particular occupation was at an 18 increased risk for contracting a disease from exposure 19 in that occupation, wouldn't it also be important to 20 know for how long the person was exposed? 21 Yeah. Α 22 So if someone is caught in a cohort as 23 having been classified as a welder at any one given 24 time, regardless of how long, if it happened to be a 25

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Page 138 very short period of time, that could have an impact 1 on the results, could it not? 2 It may or may. It depends if there's an Α 3 association with the duration of exposure. But -- but 4 in our study we actually did that and found that 5 people who worked longest, twenty years or more, I 6 think it was twenty years or more, had no -- their 7 risk was not statistically significantly different 8 than people who worked a short period of time. 9 The risk of hospitalization? Q 10 For Parkinson's disease. Α 11 So what I'm trying to get to is if Right. 12 you have, of a cohort of six thousand people --13 Umh-humh. A 14 -- for ease, let's say one thousand of them 0 15 were only welders for a month --16 Umh-humh. Α 17 -- that one thousand people, if it's a time-18 dose relationship, would greatly dilute the effect, 19 would they not? 20 If that's the case. But that wasn't the Α 21 case in our study, that people who worked longest had 22 the greatest risk. 23 I understand you want to talk about your 24 study and you want to defend it. 25

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		Page 139
1	A	Yeah.
2	Q	But I'm not talking about your study right
3	now.	
4	A	Okay.
5	Q.	Okay?
6		MR. SCHACHTMAN: Objection to form.
7	Q	So normally speaking, if you have a
8	_	n of six thousand people and one thousand of
9		e engaged in the occupation for a very brief
10		time but still classified in the cohort as
11		cupation, and if it's a time-dose response or
12	relations	ship, that would dilute the result, would it
13	not?	
14		MR. SCHACHTMAN: Objection to form.
15	A	I don't know.
1.6	Q	It could
17	A	I'm speculating.
18	Q	It could, though, couldn't it?
19		MR. SCHACHTMAN: Objection to form.
20	A	It may.
21	Q	What steps did you all take to verify the
22	duration	that someone welded?
23	A	It was ascertained from the questionnaire
24	data.	
25	Q	How would you do that in your study if you
1		

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1	were designing one?
2	A If it was a prospective study, which I
3	prefer to do, you would know when they first were
4	employed as a welder.
5	Q Okay. And if it was a retrospective study,
1	how would you go about ascertaining it?
7	A It depends on what type of information you
8	have.
9	9 Q You know they're a welder.
10	O A You would have to have identified that
1	1 through some mechanism.
1	2 Q Yes, sir. And so how would you then
1	3 identify for how long each person was a welder?
1	4 A It would depend on the information that you
1	5 had about the person.
1	6 Q All you know is it's a human being that's a
1	7 welder.
1	8 A Umh-humh. If it was a yes/no, then you
1	youldn't be able to do it.
2	20 Q How would you after you had the yes or
	no, what steps would you take to find out?
2	22 A You're asking me to speculate, or
	23 Q Assume you had a database that gave you the
	24 data on six thousand people that said they were
	25 welders and you wanted to know how long they were

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welders, how would you go about finding out? A There's a number of ways you could it. You could ask them. Q Right. A You could look at employment records. Q Okay. A You could look at tax records. Q Okay. Was that done in Denmark? A Yes. Q What was done? A We asked them and we looked at employment records. Q Okay. When did you ask them? A I didn't ask them personally, our Danish colleagues did. Q I'm sorry. Who did? A Danish colleagues. Q When did they ask them? A They had information in 1986. Q Okay. So they used the questionnaire? A Right. Q Would you use a questionnaire? A I, I would use whatever method I could. Q Would a questionnaire be one of the methods? Yes, yeah.			Page 141
2 A There's a number of ways you could it. You 3 could ask them. 4 Q Right. 5 A You could look at employment records. 6 Q Okay. 7 A You could look at tax records. 8 Q Okay. Was that done in Denmark? 9 A Yes. 10 Q What was done? 11 A We asked them and we looked at employment 12 records. 13 Q Okay. When did you ask them? 14 A I didn't ask them personally, our Danish 15 colleagues did. 16 Q I'm sorry. Who did? 17 A Danish colleagues. 18 Q When did they ask them? 19 A They had information in 1986. 20 Q Okay. So they used the questionnaire? 21 A Right. 22 Q Would you use a questionnaire? 23 A I, I would use whatever method I could. 24 Q Would a questionnaire be one of the methods?	1	welders, h	now would you go about finding out?
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24 Q Would a questionnaire be one of the methods?	22	Q	
- was roah	23	A	I, I would use whatever method I could.
A Yes, yeah.	24	Q	Would a questionnaire be one of the methods:
	25	A	Yes, yeah.

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	Page 142
1	All right.
2	Sure.
3	Exhibit 1, I believe no, what is it?
4	3.
5	Exhibit 3?
6	Yeah.
7	Is that the one you would use?
8	For my dream study, or for
9	Yes, sir.
10	A I would use a similar questionnaire.
11	You would. What all does that ask?
12	A Specifically, I don't know.
13	But you would use it?
14	A I, I would use it to get the similar type of
15 inf	mation.
16	Q But you don't know what information it
17 see	, do you?
18	A I know that it tells you duration of
	ng, how many years you worked as a welder, when
20 you	tarted working as a welder.
21	Q That's what you understand from reading the
22 stu	7?
23	A That's what I understand from my Danish
24 col	eagues.
25	Q I see. So you a questionnaire in your

book is a valid way to follow up, just to follow up and find out whether or not somebody was a welder and for how long? A It's one of the ways that you could do it. Q Okay. Was that done when you undertook the study that was published, or is to be published that you were hired by the welding industry to do? A Yeah, a questionnaire was used. Q No. Did you use one? A Myself personally? Q Yes. A I did not. Q Did you or your colleagues that were involved in writing the paper in the year 2004 use a questionnaire? A Yes, they did. Q Which one? A This one. Exhibit No. 3. Q Was that provided to them? A I'm sorry? MR. SCHACHIMAN: Objection to form. Q Were the answers to the questionnaires given to them? MR. SCHACHIMAN: Objection to form. A I don't understand your question. I'm		Page 143
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MR. SCHACHTMAN: Objection to form.	22	Q Were the answers to the questionnaires given
	23	to them?
25 A I don't understand your question. I'm	24	MR. SCHACHTMAN: Objection to form.
	2.5	A I don't understand your question. I'm

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		Page 144
1	sorry.	
2	Q	As I read the paper
3	Ά	Umh-humh.
4	Q	you all did not resubmit questionnaires
5	to people	e, did you?
6	A	We did not.
7	Q	Okay. So did you and your colleagues use
8	questionr	naires?
9	A	Yes.
10	Q	Where did you get them from?
11	A	From the 1986 questionnaire.
12	Q	So did you have copies of the 1986
13	question	naires?
14	A	Oh. Me no, I did not.
15	Q	Did your colleagues?
16	A	They did not have copies of the
17	question	naires.
18	Q.	So how did you use them?
19	A	They had the text files that were coded from
20	the quest	tionnaires.
21	Q	And where did they get those?
22	A	They own that data.
23	Q	Who is they that own that data?
24	A	Our Danish colleagues.
25	Q	What are their names?

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	Se 1:03-cv-17000-Rivio Boodinone 1992
	Page 145
1	A Doctor Doctor Bonde, I think B-O-N-D-E, I
2	think it's Jens Peter. The original data is owned by
3	Doctor Hansen who collected it.
4	Q Is that data available?
5	A In Denmark it is.
6	Q Does one have to go through the same process
7	to get that data?
8	A Absolutely, yeah.
9	Q So is it controlled by the Danish
10	government?
11	A It's controlled by the Danish Cancer
12	Institute.
13	Q And Mr. J-E-N-S Peter B-O-N-D-E
14	A Yeah.
15	Q has that data?
16	A I believe so.
17	Q But do you know?
18	A I don't know for a fact.
19	Q Okay. Did you oversee anyone doing any work
20	with respect to those data?
21	A I discussed with our Danish colleagues the
22	analyses.
23	Q Did you oversee how anyone used that data?
24	A Yes.
25	Q Whom did you watch and what were they doing?

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1	A	I watched the statistician do the analysis.
2	Q	How did they do it?
3	A	On a computer.
4	Q	Did you take any random sample at any time
5	of any of	the work performed by statisticians to
6	ascertain	that they were accurately doing their work?
7	A	The data was replicated by one of our
8	biostatist	cicians as well. I mean, the data analysis.
9	Q	Which one?
10	A	Miss Cohen.
11	Q	And Miss Cohen is an IEI person?
12	A	Yes.
13	Q	Did you oversee her work personally?
14	A	As yes.
15	Q	So you watched her do it?
16	А	I didn't watch her do it.
17	Q	Okay.
18	Α	But I saw the results of her work.
19	Q	You saw her results?
20	Α	Yeah.
21	Q	Did you see what steps she took to
22	replicate	
23	Α	No.
24	Q	Do you know what steps the first group took
25	to generat	te their reports?

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	Page 147
1	A No. In general I do, but the specific
2	steps, I don't know.
3	Q Why not?
4	A Because that was their duties, or that was
5	their job on the project.
6	Q Is Miss Cohen in a position to tell us
7	whether or not she looked did she look at the
8	underlying data?
9	A No.
10	Q So she did not have Doctor Hansen's
11	underlying data?
12	A No. We're the underlying by
13	underlying data I mean the hospitalization data,
14	that's the underlying Parkinson's's data.
15	Q Then let's use the underlying computerized
16	data from Doctor Hansen.
17	A Yes.
18	Q Did she have that?
19	A She looked at that when she was in
20	Copenhagen, yes.
21	Q Did she manipulate it, or just look at it?
22	A She manipulated it.
23	Q Okay. Did she manipulate it under anyone's
24	supervision?
25	A Pardon me?

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:	Page 148
1	Q Did she manipulate it while under anyone's
2	supervision?
3	A Under my supervision and Doctor Olsen's
4	supervision, yes.
5	Q What was the nature of your supervision?
6	A I discussed with her the type of analyses I
7	wanted to see from the data.
8	Q Okay. And did she provide the type of
9	analysis you wanted?
10	A She performed the statistical maneuvers that
11	I asked her to.
12	Q And did you do anything to verify that her
13	statistical maneuvers were done properly?
14	A I did not, but my Danish colleagues did as
15	well.
16	Q And who was your Danish colleague that did?
17	A Miss Bouts, Andrea Bouts.
18	Q How you did she go about doing it?
19	A She ran the statistical tests independently
20	of Miss Cohen and got the same results.
21	Q Using the same formulas?
22	A I'm not sure exactly what her programming
23	entailed.
24	Q Did any American have access to any of the
25	underlying hospitalization data?

		Page 149
1	A	No.
2	Q	What Danish people had access to the
3	underlyin	g hospitalization data?
4	Α	The people at the National Board of Health
5	and Welfa	re. And I'm not a hundred percent sure but I
6	think tha	t they gave summary data to the Cancer
7	Institute	so that we could calculate rates.
8	Q	In your dream study with respect to welding
9	rods, wou	ld you study different types of welding rods?
10	A	If I believed that there was a health effect
11	associate	d with it, the welding rods.
12	Q	Would you study different types of metals
13	that were	being welded with different types of rods?
14	A	Again, if I believed there were health
15	effects.	
16	Q	Were you of the opinion that mild steel and
17	stainless	steel welding was the only welding that
18	potential	ly posed a health risk?
19	A	I had no thoughts on what type of welding.
20	Q	Was that Doctor Blot's call as to what
21	welding -	_
22	A	We used all the data that was available to
23	us, and t	hose were the data that were available to us,
24	mild and	stainless steel welders.
25	Q	Do you know what the diagnostic criteria for

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	Case 1.03-CV-17 000 1.000
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1	the various disease categories in your Danish study
2	was utilized in Denmark during the times at
3	understudied by you and your colleagues Parkinson's
4	disease?
5	A I don't, but the neurologist that treated
6	the patients did.
7	Q Okay. So let me back up.
8	Did you undertake any examination or
9	interview anybody to ascertain the diagnostic criteria
10	utilized by Danish physicians during the periods that
11	your cohort was followed by you in those records?
12	A I did not.
13	Q Okay. Is there a separate neurological
14	registry in Denmark?
15	A No.
16	Q Do you know whether or not everyone who gets
17	hospitalized in Denmark is seen by a neurologist?
18	A I don't know.
19	Q So am I correct in my understanding that of
20	your cohort of six thousand people, as far as we know
21	it may well be that none of them saw a neurologist?
22	A That's incorrect.
23	MR. SCHACHTMAN: Objection to form.
24	Q I'm sorry?
25	- mannedt

C	ASE 1.05-CV-17 000 Talle
	Page 151
1	Q And how do we know that that's incorrect?
2	A We verified the diagnosis of Parkinson's
3	disease, we discussed that in the paper, and in order
4	to verify it they went through medical records and
5	either had a neurologist write down Parkinson's
6	disease in the medical records and also medication to
7	treat Parkinson's disease.
8	Q So it's your understanding that your random
9	sample of was it eighty records?
10	A I can't recall the exact number.
11	Q Well, and you didn't do that, did you?
12	A Right.
13	Q That was the Danish colleagues
14	\mathtt{A} Right.
15	Q that did that?
16	Now, you're saying that they verified that a
17	neurologist had seen each of those patients at the
18	time of diagnosis?
19	A At the time of hospitalization.
20	Q At the time of hospitalization they verified
21	that each of those had been seen by a neurologist?
22	A That through the medical records, yes.
23	Q Okay. And then what, that was independently
24	assessed by a neurologist on your team to verify that
25	that diagnosis was accurate?
- 1	

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	Page 152
1	A No.
2	Q Who was it that undertook to verify the
3	accuracy or inaccuracy of the Parkinson's disease
4	diagnosis in the random sample?
5	A I'm not sure. It was someone under the
6	direction of Doctor Olsen, who was on the paper. I'm
7	sorry, Doctor Hansen, Johnni Hansen.
8	Q Is Johnni Hansen, J-O-H-N-N-I, related to
9	the Doctor Klaus Hansen?
10	A I have no idea.
11	Q How long did you all work together?
12	A I don't know who Doctor Klaus Hansen is.
13	Q You don't?
14	A No.
15	Q Okay. Did you work with Johnni Hansen?
16	A Yes.
17	Q And where is he from?
18	A Copenhagen.
19	MR. SCHACHTMAN: Hansen's a little bit like
20	Kim in Korea. Hansen in Denmark is a little bit like
21	Kim in Korea.
22	Q Do you know the ICD diagnostic criteria for
23	Parkinson's disease, or maganesism or Parkinsonism, or
24	any of the disease categories in your study?
25	MR. SCHACHTMAN: Objection to form; assumes
1	

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-		
		Page 153
1	facts not	in evidence.
2		Could you repeat the question?
3	Q	Do you know what the ICD codes are?
4		I think we report them in the paper.
5	Q	Right. But are you familiar with them?
6	Ä	I can't tell you them from memory.
7	Q	No. But are you familiar with them?
8	A	I'm familiar in that we put them in the
9	paper.	
10	Q .	Are you familiar with the diagnostic
11	criteria s	et forth by the ICD codes for Parkinson's
12	disease, f	or example?
13		MR. SCHACHTMAN: Objection; foundation.
14	A	I'm sorry. I'm not sure what you're asking.
15	Q	Your paper says that the patients were coded
16	as having	Parkinson's disease based on ICD 8 through
17	10, I beli	eve, correct?
18	A	Yes.
19	Q	Do you know what's contained in the ICD 8,
20	for exampl	e, with respect to a description of
21	Parkinson'	s disease?
22		MR. SCHACHTMAN: Objection; foundation.
23	А	I, I can look in the ICD code book for 8, 9
24	and 10, an	d look up Parkinson's disease and determine
25	what the c	ode is.

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	Page 154
1	Q Okay. Everybody in this room could do that.
2	A Correct.
3	Q Okay. But do you know whether or not the
4	ICD code also has criteria for what someone should
5	manifest in the way of symptoms as to whether or not
6	they may fit under one particular ICD code in any of
7	those editions as opposed to under a different ICD
8	code?
9	A That I don't know.
10	MR. SCHACHTMAN: Objection to foundation.
11	A No.
12	Q Okay. Prior to you undertaking your role
13	and yours was in January of 2004, right?
14	A Yeah.
15	Q were you aware of any epidemiological
16	studies that showed an increased incidence of
17	Parkinsonism or Parkinson's disease in people exposed
18	to welding fumes?
19	A Not prior to 2004.
20	Q Did you become aware of any between January
21	2004 and the publication of your article?
22	A Yes, through the ones I looked up on Pub
23	Med.
24	Q Do you recall which ones revealed that?
25	A I think I discussed them in my paper, so I

Page 155 can't recall off the top of my head. 1 Do you make a distinction between -- what is 2 the distinction -- excuse me, I think you already told 3 me you did. What is the distinction you make between 4 Parkinsonism and Parkinson's disease? 5 The only distinction I make is through the 6 ICD codes that we used to define our outcomes in the 7 8 paper. All right. So did you have to, or did any 9 Q of the people involved in writing your paper have to 10 make any kind of independent assessment that someone 11 fit one or the other of the ICD codes other than the 12 random sample? 13 No one on the paper looked to see Α 14 if -- looked for the ICD criteria in the welders or in 15 the general population. 16 When it came to the random sample, who was 17 it of your colleagues that undertook to diagnose and 18 classify the ICD code that a patient would have based 19 on the review in the random sample of the medical 20 records? 21 No one on my study did a diagnosis. Α 22 only a verification of the diagnosis. 23 So if I'm understanding what you just 24 Q Okay. said, the random sample was not undertaken to be sure 25

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	Page 156
1	that someone was correctly diagnosed, the random
2	sample was undertaken to see if the record really said
3	Parkinson's disease?
4	A That there is a verification of Parkinson's
5	disease in the record, yes.
6	Q All right. Was it restricted to primary
7	diagnosis?
8	A For our study it was, yes.
9	Q Was it restricted to that for purposes of a
10	random sample?
11	A Yes.
12	Q Are you familiar with the reference
13	sample or, excuse me, the Reference Manual on
14	Scientific Evidence?
15	A No.
16	MR. CROSBY: Let me show you what we will
17	or I will mark for us as Exhibit 4.
18	THE WITNESS: 4 is next.
19	
20	
21	toll mo what that is, please, sir?
22	The same to be a proposal for the
23	
24	that study been approved?
25	Q Has that study been approved:

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	Case 1.00-cv-110	
		Page 157
1	A	It's going through that process right now.
2	Q	So has it been approved?
3	A	It's going I don't no, it has not been
4	approved.	It's
5	Q	Did you help draft this proposal?
6	A	No.
7	Q	Who drafted the proposal?
8	A	Doctor Blot.
9	Q	When did he draft that proposal was July
10	20th, 200	4?
11	A	That's what it says, yeah.
12	Q	Do you know to whom he presented it?
13	A	No, I don't.
14	Q	But you do know it's under consideration?
15	A	Right.
16	Q	Do you know if he's presented it to welding
17	manufactu	rers or NIH or
18	A	I'm sorry. By under some consideration, I
19	mean that	the Swedes are going through the process to
20	get appro	val for the data.
21	Q	All right. And do you know whether or not
22	you have	it's been submitted by to anyone for
23	approval	for funding?
24	A	It's my understanding that it's been funded.
25	Q	Okay. Who is funding it?
1		

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_		Page 158
1	A	The same group that's funded the Danish
2	study.	
3	Q	Who is that group?
4	А	I can't recall what they title themselves,
5	consumable	es of welding products.
6	Q	Combustibles?
7	А	Yeah.
8	Q	Do you all at IEI represent, or ever do any
9	work with	labor unions?
10	A	I don't know.
11	Q	Have you?
12	A	I have not, no.
13	Q	Have you all ever undertook to explore risk
14	or causat	ion of disease in a population of workers on
15	behalf of	the workers?
16	A	Yes.
17	Q	Which ones?
18	A	Boeing.
19	Q	And what was the extent
20	A	I guess that was funded by the automotive
21	union.	
22	Q	Okay. And what was the name what was
23	that stud	y involving?
24	A	It's currently ongoing, of people who
25	developed	rocket test engines.
1		

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	Page 159
1	Q And is it funded by them in whole or in
2	part?
3	A I think I'm not exactly clear who the
4	funding actually comes from, but I, I know they're
5	part of the I think they did fund part of it.
6	Q They either may be funding or they're
7	providing the cohort?
8	A No, they're not providing the cohort. The
9	cohort is all the employees of Boeing.
10	Q Okay. Is Boeing funding part of it?
11	A I believe so.
12	(Deposition Exhibit No. 5 was marked for
13	identification and was attached to the transcript.)
14	MR. CROSBY: Let me show you what I will
15	mark as No. 5. I don't know why some of these are
16	thicker than others.
17	MR. THOMPSON: This is 5?
18	MR. CROSBY: That's 5. I apologize to you
19	all for not having enough copies, but I didn't know
20	how many were going to be here, either.
21	BY MR. CROSBY:
22	Q Could you tell me what this is, please?
23	A It appears to be the proposal that for
24	the Danish study.
25	Q Have you seen it before?

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	Page 160
1	A Yes.
2	Q When was the first time that you saw it?
3	A I think that $$ when you asked us to produce
4	it.
5	Q Okay. So prior to undertaking the study in
6	January and throughout the time that the study was
7	being performed, you didn't look at this proposal?
8	A No. It was in Doctor Blot's office.
9	Q Okay. Was there a protocol for this study?
10	A Other than what's written in the proposal,
11	no. The proposal is the protocol.
12	Q So how did you know what to do?
13	A Actually, it pretty much lays out step by
14	step what we're going to do under the methods section.
15	Q Yes, sir. But I understood you didn't have
16	this until after the study was finished.
17	A Excuse me?
18	Q I understood that you did not have Exhibit 5
19	until after the study was finished.
20	A No. What this this is telling the
21	methodology used to assemble the cohort and to link it
22	to the registries and things like that. So that was
23	all done prior to my joining.
24	MR. SCHACHTMAN: Mr. Crosby's asking you
25	about your last answer in which you said you hadn't

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Page 161 seen this before you started. 1 THE WITNESS: Right. 2 You only saw it recently. MR. SCHACHTMAN: 3 Then he asked you how you did the study without 4 knowing this information, that's the question. 5 This was for the, for the Danes to Okay. 6 follow, and they had completed the -- most of the 7 steps in here except for the analysis prior to my 8 joining the project. 9 BY MR. CROSBY: 10 All right. So can you walk me through the 0 11 process? 12 Umh-humh. Α 13 At some point, I take it, either Doctor Blot 14 was approached or he had a vision of doing a study? 15 Umh-humh. Α 16 And from there to the time that you got 17 involved, what took place? 18 Approvals to use the Danish data, some data 19 processing, and by that I mean a reassembling of the 20 questionnaire data and getting -- collecting the data 21 or applying it and assembling the data for Parkinson's 22 disease and other neurological conditions, and then 23 creating the background rates. 24 Who did all of that? Okay. Q 25

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1	A The Danes.
2	Q Was Doctor Blot involved in that?
3	A Other than the initial discussions, no.
4	Q Okay. Were you involved in that?
5	A No.
6	Q Have you undertaken any steps for
7	verification of what was done by the Danes up until
8	the time that you came onboard other than them telling
9	you that this is what we did and we did it right?
10	A I personally did not do that, no.
11	Q Okay. Did any American do that?
12	A No.
13	Q Do you know if there are any drafts of this
14	proposal?
15	A I, I have no idea. I have no knowledge at
16	all.
17	Q Do you have any real awareness of what's
18	contained in the proposal?
19	A I've read it through, yeah.
20	Q Okay. When was the first time you read it
21	through?
22	A I'm not sure. Probably within the last
23	six months.
24	Q Okay. So this proposal didn't have anything
25	to do with the way you did the study, did it?
1	

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	Page 163
1	A The study was used standard
2	epidemiological methods, and I was able to do that.
3	Q Right. So this proposal didn't have
4	anything to do with how you did the study?
5	MR. SCHACHTMAN: Objection to form.
6	Q This proposal didn't guide you in any way?
7	A Everything that is in this proposal was
8	done, yes.
9	Q That's not my question, Doctor. And I'm
10	sorry that I'm inartful.
11	Did you rely on this proposal in any way,
12	shape, or form in performing what you did with respect
13	to the Danish study for the welding manufacturers?
14	A I did not read this proposal and then do the
15	study.
16	Q Okay. So did you rely on it in any way,
17	shape, or form?
18	A I personally did not.
19	Q Okay. Did anybody at IEI involved in it, in
20	the study rely on this proposal in any way, shape, or
21	form other than Doctor Blot?
22	A I, I believe Doctor Blot did.
23	Q And is he the only one as far as you know?
24	A Yes.
25	Q I notice that in this proposal there is

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	Page 164
1	mention of a number of Danish hospital discharge
2	registries and other registries that can be linked
3	together.
4	A Umh-humh.
5	Q Do you know whether or not any of that was
6	linked other than the discharge registry and the
7	discharge diagnosis? And, excuse me, there's one
8	other one, I think, the emergency outpatient registry.
9	A I'm sorry. I don't I don't see where
10	you're reading the other registries.
11	Q Let me just ask you this.
12	What registries, if any, are you familiar
13	with being linked or utilized in the study?
14	A The hospital discharge registry.
15	Q Yes.
16	A The mortality registry.
17	Q Umh-humh.
18	A And the immigration registry. And I think
19	that's all that I'm aware of.
20	Q Does the hospitalization registry include
21	emergency room or outpatient?
22	A Yes.
23	Q Okay. Would that include clinics?
24	A Yes, it would.
25	Q Does it mean that and I don't know how

		Page 165
1	Danes pra	ctice medicine?
2	Ä	No.
3	Q	But if I'm a Danish citizen and need to go
4	to see my	doctor
5	А	Right.
6	Q	who is a neurologist, and I go see my
7	neurologi	st doctor, is he captured in this system?
8	A	Yes.
9	Q	From day one, or from 1996?
10	A	It depends
11		MR. SCHACHTMAN: Objection to form.
12		THE WITNESS: I'm sorry.
13	A	if you were hospitalized or not.
14	Q	Assume I'm not hospitalized.
15	Ą	Then it would be captured in 1996.
16	Q	Okay. So any person whose visits to a
17		st in Denmark prior to 1996 that did not
18	result in	hospitalization is not captured?
19	A	Right. In this registry, that's correct.
20	Q	Now, post 1996, are you saying that anyone
21		to any doctor anywhere in Denmark for any
22	purpose o	ther than plastic surgery is captured by this
23	system?	
24	A	Yes.
25	Q	And as I understand it, the and by this

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	Page 166
1	system, I mean the hospitalization system.
2	A Umh-humh.
3	Q And as I understand it, when someone goes in
4	there is a diagnoses and there are up to twenty
5	different diagnoses?
6	MR. SCHACHTMAN: Objection.
7	A There can be.
8	Q Up to twenty?
9	MR. SCHACHTMAN: Objection.
10	A That's my understanding.
11	Q Okay. Which one of the twenty did you all
12	use?
13	A We used the first diagnoses, because it's
14	impossible to calculate comparison rates if you try to
15	use all twenty diagnoses.
16	Q Okay. So is it the diagnosis at time of
17	presentation of the patient at the hospital or the
18	emergency room, or is it the primary diagnosis at the
19	time that the person is discharged, or do you know?
20	A I don't know.
21	Q All right. So if you'll look at No Page
22	3, is a list of various diseases or conditions with
23	TCD codes. Was there any consideration given, or do
24	you know if there was any consideration given to using
25	IDC excuse me, ICD occupation codes?

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	Page 167
1	MR. SCHACHTMAN: Objection to form;
2	foundation.
3	Q Or occupation disease codes?
4	A I'm
5	MR. SCHACHTMAN: Same objection.
6	A I'm not aware of what those codes are.
7	Q Okay. And as I understand the way the data
8	were likely done, if someone had a diagnosis, any of
9	these diagnoses that carry any of these ICD numbers,
10	they were theoretically picked up by the
11	hospitalization registry system?
12	A If they had one of these diagnoses in the
13	hospital discharge registry, yes, we picked them up.
14	Q And that's done by just key punching or
15	key punching's a thing of the past.
16	A By
17	Q By computerized manipulation?
18	A Yes.
19	Q Right under that it says: In addition to
20	the hospital discharge and outpatient registries, a
21	psychiatric registry has been in place since 1953.
22	Linkage to this registry will also be explored.
23	A Umh-humh.
24	Q Did you have any involvement in the
25	exploration of that?

EX 5-167

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	Page 168
1	A No.
2	Q Do you have any understanding as to whether
3	or not such a registry exists?
4	A I understand that that registry does exist,
5	yes.
6	Q Do you understand why it was determined not
7	to link?
8	A I, I don't have any knowledge at all on
9	that.
10	Q Did you all calculate SDRs?
11	A No.
12	Q The bottom paragraph on Page 3
13	A Oh, I'm sorry. We call them standardized
14	hospitalization rates. In here we're calling them
15	disease ratios. It's the same calculation.
16	Q Would it be performed in a similar manner to
17	an SMR for that type study?
18	A An SMR would deal with mortality.
19	Q Right.
20	A But it would be performed in a similar
21	manner, yeah.
22	Q And did you calculate to a ninety-five
23	percent confidence interval?
24	A Yes.
25	Q Did Doctor Blot go to Denmark?

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<u> </u>	Case 1.05-07-17	Page 169
1	A	Doctor Blot has been to Denmark, yes.
2	Q	Did he go for this?
3	A	No.
4	Q	Did you go to Denmark for this?
5	À	Yes.
6	Q	Did Ms. Lipwid did Miss Lipworth, or
7	Mr. Lipw	orth, Lauren Lipworth?
8	A	Miss.
9	Q	Miss?
10	A	Doctor.
11	Q	Doctor?
12	A	Doctor, yes.
13		She did not, no. She was pregnant.
14	Q	Did anyone with IEI other than you go to
15	Denmark?	
16	A	Yeah. Miss Cohen.
17	Q	And how many times did you all go?
18	A	We went once. For this specific study,
19	once.	
20	Q	Yes, sir. Do you know Jens P. Bonde's
21	maiden r	name?
22	A	He's
23	Q	It's a her a him?
24	А	A him, yeah.
25	Q	I don't know these names baffle me, I'm

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	Case 1:03-cv-17 000-killer Decament
	Page 170
1	sorry. They probably think I've got a strange name
2	and they would
3	MR. SCHACHTMAN: Crosby's not a Danish name?
4	MR. CROSBY: That's what I'm going to have
5	to look up.
6	MR. SCHACHTMAN: You could probably trace
7	the linage back five or six centuries.
8	MR. CROSBY: Absolutely.
9	BY MR. CROSBY:
10	Q Do you know who made the decision not to
11	link to the psychiatric registry?
12	A No, I don't.
13	Q Do you know why it was decided not to?
14	A No.
15	Q Looking at Page 6, it has fixed cost at two
16	hundred and eighty-nine thousand, seven hundred
17	dollars.
18	A Umh-humh.
19	Q And I thought we added up the numbers this
20	morning and we were right at two hundred and eighty
21	thousand dollars.
22	A I don't recall now. I'll trust you.
23	\mathtt{Q} Is there going to be a supplemental has
24	it gone up?
25	A No. My understanding was that maybe it

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	Page 171
_	did when was the last bill submitted? I'm not
1	did when was the last bill state
2	sure.
3	Q I think you have them (indicating). It's
4	Exhibit 1.
5	A You know, I don't know, because I'm not in
6	charge of submitting the bills, so let's see. It
7	looks like his last one was July, so I think there's
8	one more payment.
9	Q And it says here that there's a discounted
10	rate of three hundred and fifty dollars per hour for
11	Doctor Blot, two-fifty for you, and two-fifty for
12	Doctor Lipworth.
13	A Okay.
14	Q Do you have an understanding as to why that
15	was done?
16	
17	Q And you discontinued your favorable rate?
18	A For?
19	Q For purposes of doing your testimony and
20	doing declarations and doing work for the litigation.
21	The same of billing, so I don't
22	know
23	Q Okay.
24	
25	Q I understood that you were charging four

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	Page 172
1	hundred dollars an hour.
2	A Right.
3	Q Okay. Well, here it was two-fifty.
4	A This is a different activity.
5	Q Okay. So writing a report is two hundred
6	writing a scientific paper is two hundred and fifty
7	dollars an hour and a declaration's four hundred an
8	hour?
9	A I have no idea.
10	Q And on that last page it says Danish Cancer
11	Society-slash is that Ar/hous?
12	A Ar/hoose.
13	Q Aarhus University
14	A Yeah.
15	Q a hundred and forty-nine thousand
16	dollars?
17	A Yeah.
18	Q Is that being paid directly by you all, do
19	you know?
20	A I'm not in charge of billing. I don't know
21	how those bills are being processed.
22	(Deposition Exhibit No. 6 was marked for
23	identification and was attached to the transcript.)
24	BY MR. CROSBY:
25	Q I'll show you what I'll mark as Plaintiff's

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•	Dase 1.00-04-17 000 km/s
	Page 173
1	Exhibit 6, which is entitled a Research Agreement.
2	Have you seen that previously?
3	A I'm sorry. What was the question?
4	Q My question to you is have you seen Exhibit
5	6 previously?
6	A No.
7	Q Were you aware that there was a written
8	agreement between IEI and the Institute of Cancer
9	Epidemiology/Danish Cancer Society?
10	A I assume there was.
11	Q Is the Danish Cancer Society like the
12	American Cancer Society, a private society?
13	A Absolutely.
14	Q I'm sorry?
15	A I think so.
16	Q Okay. So it's not like the National Cancer
17	Institute, this is like a private organization?
18	A No. It's I don't quite understand
19	exactly. It's affiliated with the government, but it
20	also has a not-for-profit section as well it funds
21	from. But I'm not I can't speak to exactly
22	Q Well, is the director of the Danish Cancer
23	Society a governmental employee, or is he an employee
24	of the Cancer Society, or do you know?
25	A I don't know. I don't know.

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	Page 174
1	Q And the Institute of Cancer and
2	Epidemiology, what that is? Is that a part
3	A Yes.
4	Q of the Danish Cancer Institute?
5	A That's a part of it.
6	Q Do you know if that's the privately funded
7	part, or the publicly funded part?
8	A I think those distinctions are more at an
9	overall level. I mean, they all there's not a
10	private and a public funded part.
11	MR. SCHACHTMAN: It's a socialist country.
12	Q And Joseph K. McLaughlin is the President of
13	IEI?
14	A Yes.
15	Q What's Doctor Blot's title?
16	A CEO.
17	Q Was there a separate agreement with Aarhus,
18	or is that something that was undertaken with the
19	Danish Cancer Society?
20	A I have no idea.
21	Q Have you had a chance just to look this
22	over? And do you notice that according to this
23	agreement IEI is going to pay directly to the
24	Institute of Cancer Epidemiology/Danish Cancer
25	Society?

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	Page 175
1	A Okay.
2	Q Do you know why that would be done?
3	A Why IEI is paying directly to the Danish
4	Cancer Society?
5	Q Yes, as opposed to the funders.
6	A Oh, I have no idea.
7	Q Looking at Section 3, Schedule and Payments.
8	Do you notice that IEI is to pay the Institute of
9	Cancer Epidemiology/Danish Cancer Society a hundred
10	and twenty-five thousand dollars for doing their work?
11	A I see that on Page 2, yeah.
12	Q Do you have an understanding as to what
13	happened, or where the other twenty-four thousand
14	dollars went that was designated to go to IEI and
15	Aarhus for performing their work as opposed to the
16	hundred and twenty-five thousand going to the Danish
17	Cancer Society?
18	A I have no idea.
19	Q Did the Danish Cancer Society undertake to
20	do the things that are set forth in this Research
21	Agreement?
22	A They signed the Research Agreement, yes.
23	Q I understand they signed it. But did they
24	do the work, or do you know?
25	A They did I haven't read this through, but

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1	I assume that they've done the work mentioned in here.
2	Q Well, there's an Attachment A, the research
3	protocol. Is that the same research protocol that was
4	presented to the funders?
5	A It appears to be.
6	Q Do you notice that the diseases in the
7	proposal to the Cancer Society is less extensive than
8	the list of diseases in the proposal to the funders?
9	A Okay.
10	Q Do you understand why that was changed?
11	A No.
12	Q But otherwise is the proposal or the
13	research protocol, Attachment A on Exhibit 6, does it
14	set forth the information contained on Exhibit 5 for
15	the research proposal?
1.6	A It appears to be.
17	Q Does seeing the difference on Page of
18	Exhibit 6 and Exhibit 5 with respect to disease
19	classifications that were to be reviewed have any
20	impact on your views with respect to the study
21	A No.
22	Q or the proposals?
23	A Not at all.
24	Q Why is that?
25	A The study's what it is. We looked at the
ŀ	

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C	Jase 1:05-cv-17:000-kivic
	Page 177
1	diseases that are mentioned in the study.
2	Q But do you have any idea as to why some of
3	them were taken out?
4	MR. SCHACHTMAN: Objection to form.
5	A I, I have no idea.
6	Q If more diseases were included, could it
7	change your results?
8	A I think
9	MR. SCHACHTMAN: Objection to form.
10	A we included more diseases in the paper.
11	Q Have you seen any documentation reflecting
12	any changes or modifications to the protocol and
13	proposal between IEI and the Danish Cancer Society?
14	A No.
15	Q Now, after you got onboard in January of
16	'04, right?
17	A Umh-humh.
18	Q How long was it before you went to Denmark?
19	A I think I went to Denmark in January and
20	then in March.
21	Q Okay. And what did you do before you went
22	to Denmark with respect to preparation for working on
23	this project?
24	A I read through the background literature.
25	Q And is that all reflected in the article?

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	Page 178
_	A Yeah.
1	any opinions?
2	the goo what the research questions
3	_ <u> </u>
4	were. And so, yeah. Q Okay. And what were the research questions?
5	there were any health effects of
6	
7	working in welding. Q All right. And did you have a preliminary
8	Q All right. And did you have a view as to what whether or not there were health
9	
10	effects
11	A Not at all.
12	Q from working in welding?
13	A No. Q So to you, based on what you read prior to
14	Q So to you, based on what you left for
15	January of 2004, or up until the time you left for
16	Denmark sometime in January 2004, it was an unanswered
17	question?
18	A Correct.
19	Q Had you seen any studies that had indicated
20	there was no effect?
21	A I had looked at all the studies mentioned in
22	my paper. I think some had an effect and some did
23	not.
24	Q So another study is certainly called for
25	under those circumstances?
- 1	

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	ase 1.03-cv-17000-rtivic
	Page 179
1	MR. SCHACHTMAN: Objection to form.
2	Q Do you agree?
3	MR. SCHACHTMAN: Objection.
4	A I mean, I would like to do as many studies
5	as I could, of course.
6	Q Well, did you think the question had been
7	answered?
8	MR. SCHACHTMAN: Objection to form.
9	A I, I think that the question has been
10	answered that there is no excess risk of
11	hospitalization for Parkinson's disease in Danish
12	welders.
13	Q I understand that. But did you think that
14	in January of 2004, that the question as to whether or
15	not there was an increased risk for Parkinson's
16	disease or movement disorders as a result of exposure
17	to welding fumes had been answered?
18	A No.
19	Q After you went what did you do when you
20	were in Denmark in January?
21	A I go to Denmark every two months.
22	Q Why do you go every two months?
23	A I have a variety of projects that I'm
24	involved in.
25	Q So in January of 2004 I wasn't talking

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	about this January. I said January of 2000
1	A I said this January as well.
2	19
3	Q Do you have relatives there? A I, I do, but not none that are known to
4	A I, I do, but not none that all
5	me.
6	Q We may have something in common.
7	Let me ask you, then, in January of 2004,
8	when you went over
9	MR. SCHACHTMAN: You could be related.
10	Q for this study
11	MR. CROSBY: Maybe.
12	Q When you went over for this study in January
13	of 2004, what did you do on this study during that
14	visit?
15	A I had meetings with the other researchers,
16	our Danish colleagues, to see the progress of
17	assembling the data assembly for both the
18	questionnaire and the hospitalization rates.
19	Q And did you ask them about whether or not
20	there were other registries that you would that
21	they would recommend that you might access with
22	respect to this population?
23	A I didn't ask them, no.
24	Q Did you pick the cohort?
25	A No. The cohort was picked it was an

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	Lase 1.05-CV-17000 Nine
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1	established cohort from 1986.
2	Q Well, I understand that. There are lots of
3	established cohorts out there, right?
4	A Right.
5	Q Who picked it?
6	A I assume the Danes did. We weren't aware of
7	the cohort prior to, prior to then.
8	Q Well, Doctor did Doctor Blot have it in
9	his proposal?
10	A Yes.
11	Q So did he get it from the Danes?
12	A I, I assume so. I'm not sure.
13	Q So then do you know who picked it?
14	A I don't.
15	Q Did you review any tables or data in your
16	January '04 visit?
17	A There were no tables or data to review.
18	Q In January of '04?
19	A Right, right.
20	Q Was there anything in writing for you to
21	review?
22	A No.
23	Q Was there anything on a computer screen for
24	you to review?
25	A No.

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1	Q Was there anything in any form, including
2	hologram, for you to review?
3	A No.
4	Q So what, did you all just talk?
5	A Absolutely.
6	Q Did they have suggestions about how to make
7	the study better?
8	A No. The talk was in terms of timelines and
9	what needed to be what, what how far along they
10	were in assembling the data and getting it ready for
11	analysis. So it was more procedure issues and
12	practical issues.
13	Q Did you have any telephone calls from
14	anybody with the welding industry asking you about the
15	status and the progress and timelines as you were
16	working on this study?
17	A No. I didn't meet anyone from any of the
18	lawyers until after the study was completed.
19	Q Right. But did any of them call you up?
20	A No, no. I had no contact at all.
21	Q Who would they have been in touch with?
22	A I have no idea.
23	Q Well, was Doctor Blot the primary contact
24	for this study with respect to the client?
25	A Yes, he was. As he is for all of our

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1	clients, I think.
2	(Comments off the record.)
3	MR. THOMPSON: Doctor Fryzek, if you could
4	keep your voice up a little bit.
5	MR. SCHACHTMAN: In order to keep it a
6	little cooler in here, I turned the thermostat down
7	and so now the HVAC is pumping cold air and it's got
8	that noise to deal with.
9	MR. CROSBY: Do you need any fresh water, or
10	are you all right?
11	THE WITNESS: I'm fine.
12	BY MR. CROSBY:
13	Q Okay. After you left Denmark have we
14	covered what you did in Denmark in January of '04?
15	A Yeah.
16	Q When was the next time that you had any
17	information on this particular study?
18	A The when the Danes had assembled the data
19	they called me and said it was ready to start working
20	on the analysis, so then I went.
21	Q And when was that?
22	A March.
23	Q And who was it that called you?
24	A Johnni Hansen.
25	Q And did he give you any preliminary

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	indication as to what the data were showing?
	A No. He hadn't even looked at the data yet.
2	Q So you went back over in March of '04?
4	η Yeah.
5	Q What did you do when you were there in March
6	of '04?
7	A I worked on a variety of projects for this
8	project. I set up the, what you call dummy tables.
9	It's kind of the Table 1, look at the characteristics
10	and type of analyses that you want to see.
11	Q Did you see any data in March of '04?
12	A At the conclusion of my trip, I did. And in
13	terms of data, I meant the summary data that are in
14	the table.
15	Q So in March of '04 you were able to get the
16	information that's reflected on Tables 1, 2 and 3?
17	A Yes, yeah. We completed those analysis
18	during that time.
19	Q So you all were crunching numbers?
20	A That's exactly true.
21	Q But somebody else really was doing the
22	numbers crunching, you were getting the results?
23	A Yeah.
24	Q Did you provide any formulas or any
25	information as to how they needed to crunch the

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C	Case 1:03-cv-1/000-Kivio Boodmon 700-
	Page 185
1	numbers, or is that all programmed and it just sort of
	gets crunched?
2	A That's standardized techniques, yeah.
3	Q Which ones did you all use?
4	A Pardon me?
5	Q Which standardized techniques did you use?
6	A The standardized techniques for cohort
7	studies described in Breslow & Day.
8	Q And are there programs that run those?
9	A Yes.
10	. , ,
11	And which programs dra for And Which programs dr
12	
13	called SAS. Q And is there a particular program within SAS
14	that was used, or do you know?
15	- 1 Lb lemon
16	- which edition or version?
17	whatever the dates have on their
18	
19	computers. Q Did anybody do any sampling or checking of
20	that, the system or the programs to make sure that
21	that, the system of the project they were properly and validly operated?
22	, we more all the analysis
23	A Yeah. We replicated all the analysis and we did independently. The Danes did the analysis and we did
24	
25	the analysis as well.

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	ase 1.05-04-170	Page 186
1	Q	Using the same computers?
2	À	Not the same computers. The same
3	statisti	cal software.
4	Q	Okay. Was it their computers?
5	A	Yes.
6	Q	On their system?
7	Α	Yes.
8	Q	So you used their data, their software and
9	their ha	rdware?
10	A	Yes.
11	Q	After March of 2004, what did you do on the
12	study?	Li las the namer
13	A	I worked on the paper, writing the paper.
14	Q	When did you do your first draft?
15	A	Actually, I had a first draft done by the
16	end of M	
17	Q	And what did you do with it?
18	A	I distributed it to the coauthors.
19	Q	All of them?
20	А	Yes.
21	Q	Did they give you comments back?
22	A	They gave me comments back, yes.
23	Q	How did they give you comments back?
24	A	They faxed. They wrote on the paper and
25	faxed i	t back to me.
1		

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		Page 187
1	Q	Nobody just emailed it to you?
2	А	No.
3	Q	You didn't use like Adobe Comment?
4	A	I don't know what that is.
5	Q	Or Word?
6	Ä	No. They faxed.
7	Q	Okay. Do you have those?
8	A	No.
9	Q	Did you do another draft?
10	A	Yes.
11	Q	And where is that?
12	A	That draft was sent out to the colleagues as
13	well.	
14	Q	Okay. Did you get comments back?
15	A	Yes.
16	Q	Do you have any of those?
17	A	No.
18	Q.	The first set of comments from your
19	colleagu	es, do you recall what the nature of the
20	comments	were?
21	A	It was more in the structure of the paper,
22	not real	ly the substance of the paper.
23	Q	And what was it that they wanted to modify
24	about th	e structure?
2.5	А	They put in the they had done the

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Page 188 verification analysis, the verification of Parkinson's 1 disease, and so they added that in. Doctor Bonde had 2 some information on exposure levels of welders, and he 3 put that in as well. You'll find both of those in the 4 discussion. 5 Doctor Bonde's welding exposure levels that 0 6 he had, that's not the same population of people, is 7 it? 8 I have no idea. A 9 So we don't know that his exposure level has 10 any relevance to your findings? 11 That I don't know. Α 12 And then the hospitalization, that's the 0 13 random sampling? 14 Yes. Α 15 That was on the first go-round? Q 16 I'm sorry? Α 17 That was on the first go-round of comments Ó. 18 by co-authors? 19 I think so. Α 20 Okay. On the second -- when did you have 0 21 the second draft ready? 22 Probably the end of summer. The problem was Ά 23 we had -- the second go-round we sent out around May, 24 and then in Denmark they had this wonderful system 25

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1	where they go on holiday for the summer. So when
2	people returned from holiday, we got the rest of the
3	comments back.
	and anybody suggest that there
4	De some power calculations?
5	done to my knowledge,
6	
7	after a study's been completed.
8	Q I understand. But did anybody suggest it?
9	A No.
10	Q Did you, or did anyone before the study
11	began in January suggest that there be some sort of
12	power calculation with respect to the study?
13	A It was an impossible thing to do because we
14	didn't have the background rates of Parkinson's
15	disease in the population of Denmark.
16	Q Do you know of any European countries for
17	which there has there is such data?
18	A I don't know.
19	Q Or are such data?
20	A I don't know.
21	Q What were the comments on the second round?
22	A I'm trying to recall. I think they were
23	more just grammatical and, and just some minor wording
24	changes. I can't recall exactly what they were.
25	Q And those comments are gone?

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		Page 190
1	A	Yeah.
2	Q	Did anybody ever do anything about arriving
3	at a P fa	ctor with respect to this study?
4		MR. SCHACHTMAN: Objection to form.
5	A	I'm not sure what a P factor is.
6	Q	As in like P greater than zero-point-oh-
7	five.	
8		MR. SCHACHTMAN: A P value?
9	Q	P value, P factor. I'm sorry.
10	A	We I'm not sure what you're asking. I'm
11	sorry.	
12	Q	Is there one for this study?
13	A	Every number in the table has a P value
14	associate	d with it. That's, that's included that's
15	in the co	nfidence interval of the measurements.
16	Q	Is that your range?
17	A	Pardon me?
18	Q	Is that the range?
19		MR. SCHACHTMAN: Objection to form.
20	A	The range of?
21	Q	Your CI.
22	A	Right.
23	Q Q	Can one ascertain a P value from that?
24	A	One can look at a level of significance from
25	the confi	idence level.

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	Page 191
T.	
1	Q Can one ascertain a P value for that?
2	A You can determine if P is less than or
3	greater than point-zero-five, yes.
4	Q Did anybody do that?
5	A It is understood.
6	Q What is understood?
7	A The significance level.
8	Q What is it? That it's less than zero-point-
9	five
10	A It depends
11	Q Or, excuse me, zero-point-zero-five?
12	A It depends what the levels of confidence
13	interval are.
14	MR. CROSBY: Okay. Let's look at what I'll
15	mark as Plaintiff's 7.
16	(Deposition Exhibit No. 7 was marked for
17	identification and was attached to the transcript.)
18	BY MR. CROSBY:
19	Q What is a yeah, I gave you the right one.
20	What is a P value?
21	A P value is a probability level.
22	Q And a probability level indicating what?
23	A If, if an association that you find in a
24	study is due to chance or not.
25	Q Is a P value something that one takes into
	-

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1	account when doing a study and ascertaining whether or
2	not there is a chance to replicate the study and that
3	something will happen just by chance?
4	A Not if you're a graduate of University of
5	Michigan. We believe in confidence intervals, not P
6	values.
7	Q Does anybody believe in P values?
8	A It's, it's not often reported. Confidence
9	interval is a much better measure. It gives you an
10	idea of, of chance, or P value, as well as the range
11	of a possible effect.
12	Q Did you all provide a P value for this study
13	at any point?
14	A Every measure of association has a P value
15	associated with it, yeah.
16	Q Did you ever type in the paper anywhere a P
17	value?
18	A Yeah. On Page on Table 3, there's the P
19	values. You're going to see P value equals.
20	Q Okay. Is this P equals zero-point-zero-
21	seven?
22	A You'll have to show me.
23	(Mr. Crosby exhibiting.)
24	A Yes. P equals zero-point-zero-seven, yes.
25	Q Is that a P value for the tailed study, the

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		Jase 1.03-CV-17000 1tme Document
		Page 193
	1	one-tailed study? You've got it's the last page
	2	on
	3	A That is the P value for the one-tailed
	4	categorical trend.
Ì	5	MR. SCHACHTMAN: I'm sorry. Mr. Crosby,
	6	which table are you on?
	7	MR. CROSBY: Page 25
	8	THE WITNESS: Page 25.
	9	MR. CROSBY: which is Table 3.
	10	BY MR. CROSBY:
	11	Q Is there a P value for any other aspect of
	12	the study?
	13	A Again, the confidence intervals have
	14	incorporated the value of, of chance in the measure.
	15	Q Yes, sir. But do you provide a P value for
	16	any of the other data, other than by means of
	17	confidence value confidence interval?
	18	A No.
	19	Q Now, then, what is Fast Track publication?
	20	A They publish interesting articles quicker.
	21	Q And would it generally be an article that
	22	deals with public health and safety?
	23	A It's, it's the editor's discretion.
	24	Q What was the date of your original
	25	submission for this publication?

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	Case 1.00-04-17 0	
		Page 194
1	A	I'm not sure of the exact date. It was
2	September	something. It maybe was the end of August.
3	It was so	mewhere around there.
4	Q	Of '04?
5	A	Yeah.
6	Q	Looking at Plaintiff's 7, this is a letter
7	to Paul B	randt-Rauf, I guess. I don't know.
8		Right.
9	Q	I don't want to mess his name up. He's just
10	right dow	n the street in Towson, Maryland.
11	A	Actually, he's in New York, I think. This
12	is his ed	itorial assistant who is in Towson.
13	Q	Okay.
14	A	Yeah.
15	Q	But it's addressed to him there?
16	5 A	Right. That's, that's the address of the
17	journal.	
18	g Q	Did you ask for Fast Track publication of
19	this?	
20) A	Yes.
21	L Q	Whose idea was it that you ask for Fast
22	2 Track pub	olication?
23	3 A	I think it was mine.
2	4 Q	Did you run that by Doctor Blot?
2	5 A	Yes, of course. Yeah, Doctor

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	Case 1.03-cv-17000-RMO Bootmen
	Page 195
1	Q Did he I'm sorry.
2	A Yes.
3	Q Another point. If I interrupt you, I don't
4	mean to and let me know, because I want you to finish
5	your answer. Okay?
6	A Umh-humh.
7	Q Do you know whether or not the funders
8	wanted this fast-tracked?
9	A I don't know.
10	Q What's the date that this was submitted?
11	A I'm not sure. It was in the fall.
12	Q Okay. But Plaintiff's Exhibit 7, the letter
13	transmitting it, has no date, or am I missing it?
14	A Yeah, I don't see a date as well.
15	Q This statement here, quote, it is this is
16	the next-to-the-last sentence in the first paragraph:
17	It is estimated that there are over five hundred
18	thousand welders in the United States, so that
19	evaluation of possible adverse effects from manganese
20	or other exposures among welders seems critical.
21	A Yes.
22	Q Are those your words?
23	A Yes.
24	true ten years ago?
25	T death length

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C	Page 196
	marky woars ago?
1	Q Twenty years ago?
2	A I don't know. Q Then your next is: However, to date there
3	Q Then your next is nowever, the important
4	are limited scientific data addressing this important
5	health issue. Are those your words?
6	A Yes.
7	Q And do you estimate that there are over five
8	hundred thousand welders in the U.S. alone?
9	A Actually, Science Magazine does.
10	Q Okay. And you don't have the version that
11	prompted the comments that follow on the next page of
12	Exhibit 7; am I correct?
13	A I don't believe I do, no.
14	MR. CROSBY: Okay. Do you want to change
15	now?
16	THE VIDEOGRAPHER: Sure.
17	MR. CROSBY: Okay.
18	MR. SCHACHTMAN: Five-minute stretch, or
19	MR. CROSBY: He just gave me a note that he
20	needs to change the tape.
21	THE VIDEOGRAPHER: Here ends Tape No. 2 in
22	the deposition of John P. Fryzek, Ph.D. We are going
23	off the record. The time is 2:42 p.m.
24	(A short recess was taken.)
25	THE VIDEOGRAPHER: Here begins Tape No. 3 in
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C	ase 1:03-cv-17000-Rivio Document 1992
	Page 197
4	the deposition of John P. Fryzek, Ph.D. We are back
1	on the record. The time is 2:56 p.m.
2	
3	BY MR. CROSBY: Q Could you tell us what Plaintiff's Exhibit 7
4	Property of the Control of the Contr
5	is, please?
6	A I'm sorry? Q Could you tell us what Plaintiff's Exhibit 7
7	
8	is, please?
9	A If I could have it.
10	Q I thought I gave it to you.
11	A I'm sorry. We were using it over here.
12	This is the letter we wrote to the editor of
13	the journal where we submitted our paper, as well as
14	the reviewer comments to our paper and our responses
15	to those comments, and then the final version of the
16	paper.
17	Q Do you agree that generally papers can have
18	strengths and weaknesses?
19	A Yes.
20	Q Do weaknesses in a paper generally bias to
21	the null?
22	MR. SCHACHTMAN: Objection to form.
23	A I have no idea.
24	Q You don't have any opinion one way or the
25	other as to whether or not whenever there's a weak
-	

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to aroate
1 aspect of a paper, whether or not that tends to create
2 a bias toward the null? Not an intended bias.
A Umh-humh.
4 Q It just tends to drift it down to no risk as
5 opposed to drift it up to a risk.
6 A A weakness could push it in either
7 direction, a bias towards or away from the null.
8 Q With respect to Page 2 of Exhibit 7
9 A Okay.
10 Q the comment is: What about other types
11 of welding besides mild and stainless steel?
12 A Okay. You're looking at No. 1.
13 Q No. 1, yes, sir.
14 A Okay.
15 Q Who wrote these responses?
16 A I did.
17 Q Did you delegate any portion of responding
18 to this paper to anybody else?
19 A No.
20 Q Did anybody assist you with responding to
21 this paper?
22 A Doctor I'm sure Doctor Blot commented on
23 my responses.
Q So you would have made your responses,
25 submitted them to Doctor Blot, he may have had

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C	Case 1:03-cv-17000-KiviO Document 1992
	Page 199
1	comments, and you would have gotten those back and
2	incorporated them into whatever you sent in?
3	A Right.
4	Q Do you recall whether or not he did that?
 5	A I don't recall his exact comments, but I'm
6	sure he did that.
7	Q And your response is: Information on other
8	types of welders was not available as this study was
9	based on a previous cohort study of mild and stainless
10	steel welders. Is that a limitation of the study?
11	A No, I don't believe so.
12	Q Did one of your peers indicate that it was?
13	A I don't no.
14	Q You don't know, or you disagree that
15	A I disagree that he says that.
16	Q Did he suggest that you consider looking at
17	other types of welding?
18	A Yes.
19	Q And did you explain that the reason you're
20	not is because your cohort was picked?
21	A I'm explaining that the reason was that
22	we did not was because they were not available in the
23	cohort that we studied.
24	Q Right. It was not that it was not necessary
25	to do, it was that you could not given the parameters

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	Ud56 1.00 OV 11 000 x 11110
	Page 200
1	of your cohort?
2	A Correct, yes.
3	Q So is that a weakness, that you could not do
4	the study that this reviewer was indicating he thought
5	you should explore?
6	MR. SCHACHTMAN: Objection; foundation.
7	A Yeah, that's not a weakness, no.
8	Q Okay. Did you have any weaknesses in that
9	study?
10	A Yeah, I believe we did.
11	Q In Paragraph excuse me, Methods, No. 1:
12	There needs to be a reference with respect to this
13	a statement because prior studies have shown. And the
14	response was: We included a reference from a review
15	article. Do you know which article that was?
16	A If you'll allow me to look at paper, I'll
17	tell you.
18	Q Oh, yeah. Like I said, this is open-book.
19	A Okay.
20	(Witness reviewing document.)
21	A It looks like it's Reference 25 of the
22	paper, and if you look at the reference list, it's
23	the author is Quick.
24	Q And that is dealing with smoking, nicotine,
25	and Parkinson's disease?

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1 A Yes. 2 Q And No. 2 question is do you know who any 3 of the reviewers were, by the way? 4 A No. It's blinded. 5 Q Are any people at IEI on this journal? 6 A I am. 7 Q Do you know the peers? 8 A Pardon me? 9 Q Do you know the people that review it? 10 A Reviewed no, no. 11 Q Not this particular one, but in general do 12 you know who is on the committee? Do you all call it 13 a review committee? 14 A No. Typically what they do is they find 15 people who are expertise in some field and then ask 16 them to review. So there's not a committee that they
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A Pardon me? 9
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13 a review committee? 14 A No. Typically what they do is they find 15 people who are expertise in some field and then ask
14 A No. Typically what they do is they find 15 people who are expertise in some field and then ask
15 people who are expertise in some field and then ask
16 them to review. So there's not a committee that they
17 oversee.
18 Q It's not a set group that makes up those who
19 get sent papers on a rotational basis at random?
20 A I'm not all journals do it differently.
21 I'm not sure.
22 Q Okay. And No. 2 says: I'm concerned about
23 the statistical analysis of each effect, age, time,
24 duration, smoking, is analyzed separately.
MR. SCHACHTMAN: Excuse me. It says "since

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	Page 202
1	each effect."
2	MR. CROSBY: Yes, thank you.
3	Q I would be surprised if each one of those
4	was independent from the other, especially age and
5	smoking. Was there any effect to effort to combine
6	the effects and interactions into one model so that
7	each effect is adjusted for the others? And the
8	response was what did you say in the response, can
9	you tell us?
10	A Due to the small number of cases of PD in
11	each category, simultaneous adjustment for any
12	evaluations of interactions between age, time,
13	duration and smoking was problematic, with limited
14	power interpretation of such models. No changes made.
15	And the editor agreed with us and accepted that
16	comment.
17	Q I understand. If the paper's published,
18	that means they accepted it?
19	A Absolutely.
20	Q They may not like it, but they accepted it,
21	right?
22	MR. SCHACHTMAN: Objection; foundation.
23	A I don't know.
24	Q You don't know?
25	A Yeah.

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	Case 1:03-cv-17000-Kivio Boodinoik 1902
	Page 203
1	Q So let me ask you this. Was that a
2	weakness, the small number?
3	A I don't know if I would call it a weakness.
4	It was a limitation.
5	Q A limitation?
6	A Yeah.
7	Q Do limitations bias toward the null?
8	A Not to my knowledge.
9	Q Generally, is that an accepted premise in
10	epidemiology, that limitations in a study bias toward
11	the null?
12	MR. SCHACHTMAN: Objection to foundation.
13	A Not to my knowledge, no.
14	Q Now, when it says with limited power, what
15	do you mean by that?
16	A That the number of Parkinson's disease in
17	each category was small.
18	Q So is that different from a power
19	calculation?
20	A It's yes.
21	Q Did you undertake a power calculation post
22	study to determine how limited the power was, or is?
23	A No.
24	Q Is there a reason not to?
25	A Yeah. You can look at the range of the

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	Case 1:03-cv-17000-kivio Document 1882
	Page 204
1	confidence intervals see how confidence intervals
2	in the estimates.
3	Q Then the part under Results, where it says
4	No. 1, Page 9.
5	A Umh-humh.
6	Q Quote: Sixty-nine of the cases, ellipsis,
7	closed quote, I would like to see the results from the
8	last sentence, age at onset, put into either a new
9	table or one of the existing tables.
10	A Umh-humh.
11	Q Paren, Table 2, question mark, paren closed.
12	In the text I would also be interested in seeing the
13	exact, quote, P value, closed quote, rather than,
14	paren, P is greater than zero-point-one-zero, closed
15	paren, period.
16	A Umh-humh.
17	Q Is that what the reviewer wrote?
18	A Yes.
19	Q So was there a P value in this paper when it
20	was submitted at this point?
21	A Yes, it appears so.
22	Q Did you calculate it?
23	A I did not calculate it personally, no.
24	Q Do you know who did?
25	A Probably Miss Cohen.

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		Page 205
1	Q	Okay. Did you agree with it?
2	A	With?
3	Q	Her P value.
4	Ä	I accepted her P value.
5	Q	Did you do anything to check it?
6	A	No.
7	Q	So the P value is greater than zero-point-
8	one-zero?	
9	A	That's what it says, yes.
10	Q	And is that in the paper?
11	A	In the current paper?
12	Q	Yes.
13	A	No.
14	Q	Did you take it out?
15	A	Yes. The reviewer asked us to.
16	Q	Well, actually, what does it say in the
17	text: I	would also be interested in seeing the exact
18	P value?	
19	А	Umh-humh.
20	Q	And that's in quote, right?
21	A	Yes.
22	Q	Rather than P is greater than zero-point-
23	one-zero	o?
24	A	Yeah. We actually offered him more
25	informa	tion than that by providing the confidence

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(Case 1:03-cv-1700	U-KIVIO DOCUMENT 1662 1
		Page 206
1	interval a	round the ages. So we did more than we were
2	asked.	
3	Q	In your opinion?
4		MR. SCHACHTMAN: Objection.
5	·Q	For those of us who like to see P values
6	A	Right.
7	Q	it would be nice to see one, wouldn't it?
8		MR. SCHACHTMAN: Objection; foundation.
9	Q	I understand you may not think it's any
10	good, but	there are just some of us that like them,
11	we're old	fashioned. Is there a reason that you
12	wouldn't?	
13	Ā	Because providing the confidence interval
14	offers mo	re information than a P value.
15	Q	Is a P value of greater than zero-point-one
16	of any si	gnificance as opposed to a P value of zero-
17	point-oh-	five?
18		MR. SCHACHTMAN: Objection; competence.
19	A	I'm not sure what you're asking.
20	Q	What is the goal for a P value when someone
21	is perfor	ming a study?
22	A	The goal for the P value is to determine if
23	your asso	ciation may be due to chance or not.
24	Q	And do you want your P value low, or high?
25	Α	It depends what you're looking at. I mean,

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,	Case 1:03-69-17 000-1010 - Boodment 100-
	Page 207
1	it depends on the study. It is what it is.
2	Q Does it give you any clue as to how strong
3	the study is or how much the chance is that this could
4	be a chance finding as opposed to a repeatable
5	finding?
6	A Not as much as the confidence interval.
7	Q I understand that. But does it give you
8	one?
9	A It gives you an idea, yes.
10	Q And what's the idea that it gives you when
11	it's greater than point-one-zero?
12	A There's no difference, no association.
13	Q Does it indicate that you have a higher
14	chance of this occurring by chance, if it's at, say,
15	zero-point-one-zero as opposed to zero-point-oh-five?
16	MR. SCHACHTMAN: Objection.
17	A I'm sorry. Could you repeat?
18	MR. CROSBY: Could you read that back,
19	please.
20	(Question was read by the Reporter.)
21	MR. SCHACHTMAN: Same objection.
22	A Both of those P values would say that
23	there's a high likelihood of it occurring by chance.
24	BY MR. CROSBY:
25	Q How high is the likelihood with a P value of

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	Case 1:03-cv-1/00	70 TAINS - DOSCINE
		Page 208
1	zero-point	z-one-zero?
2	А	Zero-point-one-zero, it's ninety percent.
3	Q	Ninety percent likelihood that it could just
4	be by char	nce?
5	Α	Yeah.
6	Q	And if it's, say, zero-point-zero-five?
7	A	Greater than zero-point-zero-five?
8	Q	Right, if it's greater than. Is it still
9	the same	
10	A	Yeah. It means that it's likely that
11	you're	that it's due to chance.
12	Q	What if it's equal to zero-point-one-zero?
13	A	Well, we I'm sorry?
14	Q	The P value is equal to or less than.
15	A	Those are two different questions. Sorry.
16	Q	Fine. What if it's equal to zero-point-one-
17	zero, the	P value?
18	A	Right. It says that your results could be
19	due ar	e likely due to chance.
20	Q	And if it says that the P value is less than
21	zero-poin	t-one-zero, what does that indicate?
22		MR. SCHACHTMAN: Objection to form.
23	A	Typically you say if the P value is less
24	than poir	nt-zero-five, then you say it's not likely due
25	to chance	≥.
1		

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	Page 209
1	Q Right. And your P value is twenty times
2	that, correct?
3	A Right. For, for this analysis on age.
4	Q I understand.
5	Did you have P factors for any P values
6	for any other tables besides the age and the one-tail?
7	A Again, the confidence interval incorporates
8	the probability level.
9	Q Yes, sir. Look, I understand you like
10	confidence intervals.
11	A Yeah.
12	Q And I understand that they're in the paper.
13	A Right.
14	Q What I'm trying to find out is what may have
15	been in the paper before
16	A Oh, we
17	Q but it's not there now.
18	A No.
19	
20	•
21	would not write a paper such as this with only P
22	
23	
24	
25	you what gives you an idea if there's any

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`	Page 210
1	association or not.
2	Q And you did with respect to the one-tail
3	aspect?
4	A Trend? That was a trend, yeah.
5	Q Did you provide a P value?
6	A We provided a P value for the trend test,
7	yes.
8	Q Did you provide a P value at one time on
9	age?
10	A We did. Yes, we did.
11	Q Now, smoking, did you do an analysis in this
12	study to ascertain whether the original cohort had any
13	findings that tended to be at odds with general trends
14	and observations of diseases in this group overall?
15	A The goal of this study was to look at
16	neurodegenerative diseases.
17	Q I understand. But you have a cohort of
18	convenience here.
19	A Umh-humh.
20	Q So I'm trying to see if when you looked at
21	this convenient cohort that had already been gathered
22	together by someone else
23	A Umh-humh.
24	Q did you look at the data dealing with
25	that cohort to see if there was anything in the cohort

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	Page 211
1	that would raise some flags that perhaps there's
2	something going on here that makes me want to look at
3	this cohort a little bit closer? Did you do that?
4	A I'm sorry. I'm not sure what you're asking.
5	Q Did you look at the original published study
6	dealing with this cohort?
7	A Yes.
8	Q Did you look at the data generated by that
9	study?
10	A Yes.
11	Q Did you look at the data in that study to
12	see if there was anything unusual about disease
13	incidence or disease ratios or risk or anything about
14	what's going on in this population of six thousand
15	people in Denmark that looks a little bit unusual
16	compared to what your experience is as an
17	epidemiologist to what's going on in human beings all
18	over the world, or even in Denmark?
19	A Yeah, that's a very broad question. I we
20	had the Hansen paper which looked at lung cancer.
21	Q Okay. Is that Klaus Hansen?
22	A That's his first name is I think so.
23	I think it's Klaus. I'm not sure. I can
24	Q And you don't know if he's related to Johnni
25	Hansen?

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<u> </u>	Page 212
	Hangon is a very common
1	
2	1 1 the Hengen namer?
3	
4	A Yes.
5	Q And you had the data, even? You all had
6	
7	A Yeah.
8	Q So if you had seen something in the paper
9	
10	
11	
12	the underlying records to see if there was something
13	happening?
14	MR. SCHACHTMAN: Objection to form and
15	
16	A The only disease information we had for this
17	cohort was the Parkinson's disease and the other
18	neurodegenerative diseases that we mention in the
1.9	paper.
20	Q You had smoking information, didn't you?
21	A But that's not a disease.
22	Q Diseases from smoking is, right?
23	A I, I didn't have information on diseases
24	from smoking.
2.5	Q Did the underlying paper have that

	Page 213
1	information?
2	A The underlying paper had information on lung
3	cancer.
4	Q And that was a study about lung cancer in
5	welders, right?
6	A Right.
7	Q Did you look at the lung cancer rate in
8	those welders in that first study?
9	A Yes.
10	Q Did you find it to be consistent with the
11	lung cancer rate for the general population of
12	Denmark?
13	A I, I didn't do that comparison.
14	Q If you had done that comparison and it
15	seemed to be out of kilter, would you have done
16	anything to address it in your study?
17	MR. SCHACHTMAN: Objection to form,
18	foundation.
19	A I'm not sure what I would do.
20	Q Is the author, Doctor Klaus Hansen, still
21	alive?
22	A Yes.
23	Q Did you have any discussions with him?
24	A No. I've never met him.
25	Q And as I understand it, he and his co-author

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	Page 214
1	or authors, I can't remember, created this cohort, did
2	they not?
3	A Right.
4	Q And they created this cohort to do a study
5	of lung cancer?
6	A Yes.
7	Q Prior to the submission, or the original
8	submission to the journal, did you all, or had you all
9	ascertained the number of person years reflected in
10	Table 3?
11	A Prior to the submission I'm sorry?
12	Refresh me again. I'm sorry.
13	Q Prior to the initial submission to the
14	journal
15	A Umh-humh.
16	Q had you all calculated the number of
17	person years as reflected on Table 3?
18	A All the person years were calculated prior
19	to submission to the journal, yes.
20	Q Okay. Is there a reason that they had to be
21	added after submission, initial submission?
22	A Not my knowledge.
23	Q Well, if you look at tables, under the
24	portion that says Table and it says No. 1, Table 3.
25	A I'm sorry. Where are you looking? Under
1	

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Page 215 the reviewer comments? 1 Yes, sir. 2 0 The reviewer asked us to add the Okav. 3 Α person years in the table. 4 Okay. So does that indicate to you that 5 O. person years had not been placed in that table at 6 initial submission? 7 8 Α Right. So did you have to calculate person years 9 Q after initial submission? 10 They were already calculated. We just No. 11 had to put them in the table. 12 Is there a reason you did not put them in 13 for the initial submission? 14 Α No, no reason. 15 Is there a reason this reviewer wanted them 16 Q. in, that you know of? 17 Not that I know of. 18 Α Is there an advantage to having it in there? 19 0 Other than looking at -- giving more 20 Α description of the different populations. 21 In the portion above in the discussion, once 22 0 again dealing with smoking and PD, did you just 23 address smoking and PD, or did you address smoking and 24 Parkinsonism in your one-tailed study? 25

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	Page 216
1	A The analyses are just for PD.
2	Q I'm sorry?
3	A The analyses are just for PD.
4	Q Did you look at the other neurological
5	disorders to see if there was any protective, or
6	protection afforded for those?
7	A No.
8	Q Did anybody else write any other part of the
9	initial draft of this paper? Did you delegate it at
10	all?
11	A No.
12	Q So when you first saw the three tables which
13	are did it have person years in the tables that you
14	first saw?
15	A I don't recall.
16	Q Were there data in those three tables that
17	are not in the three tables that we have here?
18	A No, there was no additional data.
19	Q And you don't have those original tables?
20	A No.
21	Q Does anybody?
22	A I don't think so.
23	MR. CROSBY: I will mark this subject to the
24	understanding that we can put the sealed cover sheet
25	on it and make sure that we're complying by whatever

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	Page 217
1	rules we need to.
2	MR. SCHACHTMAN: Right. I think we should
3	let the reporter know that the exhibit Mr. Crosby is
4	about to mark is subject to a Protective Order and is
5	certainly available to all the parties and their
6	counsel subject to the terms of the Protective Order,
7	but that this deposition should not be generally
8	available other than to the parties and their counsel.
9	I should say the, the deposition and its exhibits.
10	And I guess that would be true of the videography.
11	MR. CROSBY: For the record, I will mark it
12	as Exhibit 8, and the copies that I will distribute
13	has the Protective Order attached for anyone that's
14	not familiar with it.
15	THE WITNESS: I'd just like to say that
16	Exhibit 7 also has the paper on it.
17	MR. SCHACHTMAN: Right.
18	MR. CROSBY: And what we might want to do is
19	detach it from 7 so we don't have to keep up with but
20	one, since all I questioned him on Exhibit 7 was the
21	reviewer comments.
22	MR. SCHACHTMAN: And the submission, the
23	transmittal letter.
24	MR. CROSBY: Is that agreeable with
25	everybody, that we on No. 7 remove the study so that

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	Page 218
1	it's just Exhibit 7 is just the letter to journal
2	along with the reviewer comments? And Exhibit 8 will
3	be the paper in process.
4	(Deposition Exhibit No. 8 was marked for
5	identification and was attached to the transcript.)
6	BY MR. CROSBY:
7	Q Is this paper published yet?
8	A It will be out in May.
9	Q Does that mean it got Fast Track, or didn't
10	get it?
11	A It did not.
12	Q Do they let you know if something makes Fast
13	Track or not?
14	A They send you the proofs.
15	Q I'll ask you to please identify Exhibit 8,
16	please? Can you identify Exhibit 8 for us, please?
17	A Oh, I'm sorry. This is the paper we wrote
18	based on the welder study, the cohort study of
19	Parkinson's disease and other neurodegenerative
20	disorders in Danish welders.
21	Q You were identified as lead author, am I
22	correct, on the first page of that document?
23	A Yes.
24	Q Did anybody write any portion of this paper
25	other than you, other than editorial and comments that

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		Page 219
1	we've dis	cussed?
2	A	Yes.
3	[®] Q	Who?
4	A	Jens Peter Bonde wrote part. Jorgen Olsen
5	wrote par	t. And I think the rest were mainly
6	editorial	•
7	Q	Okay. What part did is it
8	Α	I think Johnni Hansen wrote part as well.
9	Sorry.	
10	Q	And what part did Johnni Hansen write?
11	A	One of the problems I have is usually they
12		their comments together on one draft and sent
13	it back t	o me that way. So it's difficult for me to
14	identify	exactly who commented on what part.
15	Q	No, I wasn't asking about commenting. I was
16	asking if	anyone wrote any portion of the paper other
17	than comm	
18	A	Right. Well, they would include their
19		ortions in their comments. So, for example,
20		part on, on the validity study of Parkinson's
21	disease,	they wrote that on the draft and they sent
22	that back	to me.
23	¹ Q	So that entire segment dealing with the
24	validity	study of the random sample was handwritten on
25	a draft a	nd faxed?
I		

EX 5-219

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	Page 220
1	A It was faxed back, yeah. I can't remember
2	if it was typed in the fax, or written.
3	Q What other parts did and who was in
4	charge of writing that, do you know?
5	A I, I assumed it was Johnni Hansen because he
6	was the one that was involved in that activity. But I
7	can't say for sure.
8	Q But was he the person in charge of that
9	study for the Danish group?
10	A And part of that segment of the study, yeah.
11	Q Okay. What about what did Doctor Bonde
12	write?
13	A He wrote let me look for a minute.
14	(Witness reviewing document.)
15	A He wrote about the levels of exposure to
16	metal fumes and welders on Page 14. And, also, I
17	think Doctor Olsen wrote the conclusion, or at least
18	the final sentence.
19	(Mr. Edmonson left the deposition.)
20	Q The exposure portion is the portion that
21	deals with some studies or analysis done of welding
22	fumes in Denmark?
23	A Yes.
24	Q But as I understand it, we don't know if any
25	of those studies overlapped with any of the people in

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	Page 221
1	your cohort; am I correct?
2	A Correct.
3	Q Why did Doctor Olsen write the final
4	sentence?
5	A I think he wrote the final conclusion.
6	Q Did you sign off on it?
7	A Yeah.
8	Q Did everybody?
9	A All the authors did, yes.
10	Q So this is a real group consensus work?
11	A Absolutely.
12	Q Did they all feel as strongly about it as
13	you did?
14	A In terms of that it's a good study, yes.
15	Q I noticed in looking at your paper as
16	against Doctor Hansen's paper, that your numbers of
17	the population do not always overlap precisely with
18	his numbers in his paper.
19	A Umh-humh.
20	Q Is there a reason for that?
21	A Yeah. Some of the people had died in the
22	cohort after he had published it, so the numbers are
23	slightly different.
24	Q Is that the only reason?
25	A They may have immigrated out of the country

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	Page 222
1	as well.
2	Q Did you all look at the same years in
3	population as he did?
4	A We used the same cohort as he did.
5	Q And did you use the same period of time that
6	he did?
7	A No. Our time was longer.
8	Q Okay. What was his time frame, do you
9	recall?
10	A I don't recall without looking at the paper.
11	MR. CROSBY: Let me mark as Plaintiff's
12	Exhibit 9, Cancer Incidence Among Mild Steel and
13	Stainless Steel Welders and Other Metal Workers by
14	Klaus Hansen and Jens Lauritsen and A how do they
15	pronounce that?
16	THE WITNESS: I don't know.
17	MR. CROSBY: Skytthe, I suppose, with
18	apologies to
19	MR. SCHACHTMAN: The Dutch population, yeah.
20	MR. THOMPSON: What exhibit number is that?
21	MR. CROSBY: It's No. 9. I thought I had
22	more copies, but
23	
24	(Deposition Exhibit No. 9 was marked for
25	identification and was attached to the transcript.)

EX 5-222

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	Case 1:03-cv-17000-kivio postinent to a
	Page 223
1	BY MR. CROSBY:
2	Q Is that the Hansen paper cited in your
3	paper?
4	A Yes.
5	Q And does this paper tell us what years were
6	under study by him?
7	A Yes, it does.
8	Q Okay. And what years was it?
9	A Let me look real quick here.
10	(Witness reviewing document.)
11	A We looked at the time period from 1964 to
12	1985.
13	Q And what period did you look at?
14	A 1964 to, I believe let me look at my
15	paper quickly.
16	Q Sure.
17	A I think we had dated it through '92 I'm
18	sorry. Through 2002.
19	Q And what years did you look at?
20	A The cohort was identified in 1964, so we had
21	workers back to the Sixties. But we ascertained the
22	outcome from 1977 to 2002.
23	Q And what did Doctor Hansen use to ascertain
24	outcome?
25	A The Danish cancer registry.

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	Page 224
1	Q And did he use what years?
1 2	A I think he started in '6 hold on just
3	1964 to '85.
4	Q And is the only reason for someone being
5	that they died?
6	10gt to follow-up and that they
7	T think those were the only
8	
9	and the only two reasons
10	that they immigrated out or died?
11	- ** 1. h.smh
12	
13	analysis of the data to determine whether or not
14	anyone who was included in your cohort should be
15	excluded for any reason other than that?
16	
17	Q Looking at your Statement of Clinical
18	Significance.
19	A Okay.
20	
21	assurances that men in mild and stainless steel
22	
23	or other neurodegenerative disorders.
24	
25	Q Was that also your conclusion?
ļ	

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	Case 1.00 CV 11 CCC 11 CCC
	Page 225
1	A That was my conclusion, yes.
2	Q Are you familiar with any studies by
3	Schoenberg or Gutman or others relating to the
4	incidence of hospitalization for Parkinson's disease?
5	MR. SCHACHTMAN: Objection; foundation.
6	A The only studies I know of are the ones I
7	quoted in the article.
8	Q Okay. If there is a potential for
9	underreporting of an incident, can it affect the
10	results of a study?
11	A It depends if, if it was done differently
12	for different groups in the study. But in our study
13	the reporting was done similarly for the welders and
14	
15	
16	
17	more frequently as they age with that condition?
18	A Parkinsonism?
19	
20	
21	Q Do you have that information about the
22	United States?
23	A No.
24	
25	or not a person diagnosed with Parkinson's disease or
1	

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	Page 226
1	a Parkinsonism or Parkinson's syndrome/disorder is
2	more likely to be hospitalized as they get older than
3	when they first contract the symptoms or the
4	condition?
5	A I don't have any information.
6	Q Did that have any impact on your study?
7	A It could have impact on the study.
8	Q What impact could that have?
9	A Little, if, if it was done similarly among
10	all the groups in the study.
11	Q But what impact could it be?
12	A If, if the outcome is hospitalizations for
13	Parkinson's disease, it would have no impact.
14	Q Would it tend to trend toward later
15	increased numbers of Parkinson's disease because as
16	people get older they go to the hospital for it?
17	A I don't know.
18	Q Do you know when it was first generally
19	known or publicized that welding rods contained
20	manganesism?
21	MR. SCHACHTMAN: Objection to form.
22	Q Excuse me. First publicized that welding
23	rods contained manganese?
24	A I don't know when it was first publicized.
25	Q Do you know in Denmark when it was first
1	

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	Case 1:03-cv-17000-KMO Document 1602-4 1 1165 657
	Page 227
1	publicized to the medical community that welding rods
2	contained manganese?
3	A I do not.
4	Q Do you know if it is yet?
5	A I have no idea.
6	Q Are you familiar with the term threshold
7	limit value?
8	A No.
9	Q Or permissible exposure limit?
10	A Yes, yes.
11	Q What is a permissible exposure limit?
12	A It's the maximum to my knowledge, it's
13	the maximum level of exposure to a certain substance
14	that's allowable.
15	Q And do you know what the permissible
16	exposure limit was in Denmark between 1977 to 2002 for
17	welding fumes?
18	A I have no idea.
19	Q Or for manganese oxide?
20	A I have no idea.
21	Q Do you know what it is in the U. S.?
22	A No.
23	Q Could it have an impact on your studies with
24	respect to the incidence of disease in Denmark versus
25	the incidence of disease in the United States if the

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Page 228 threshold limit value or permissible exposure limit is 1 higher in Denmark -- excuse me, is lower in Denmark 2 than in the U. S.? 3 MR. SCHACHTMAN: Objection; form, 4 foundation. 5 I think first you'd have to make the À 6 assumption that there's an association with welding 7 fumes and a disease effect. 8 But if one is trying to ascertain Yes. 9 0 whether there is an association --10 Umh-humh. 11 -- and if one is studying a population where 12 the exposure limit in one country is threefold less 13 than it is in the other country, wouldn't that tend to 14 indicate that perhaps the exposure level the country 15 with the lower value would have a different result 16 than the one with the higher value? 17 MR. SCHACHTMAN: Objection; form and 18 foundation. 19 I -- I'm not sure how that would -- how Α 20 individuals in those countries would be exposed. 21 I understand. And you're not for your 0 22 study, are you? 23 Pardon? 24 Α And you don't know that for your study? 25 Q

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	Page 229
1	A Right.
2	Q But if the general population of welders is
3	exposed to three times as much welding fumes, or are
4	permitted to be being exposed to three times as much
5	welding fumes as the welders in Denmark, would that
6	indicate to you that the welders here are exposed to
7	greater amounts of welding fumes?
8	MR. SCHACHTMAN: Objection to form and
9	foundation.
10	A Yeah, I don't have any information on the
11	exposure levels of individuals.
12	Q Your study, as I understand it from Page 5,
13	excludes all shipyards, correct?
14	A Yes.
15	Q That was not a welding-related exclusion,
16	was it?
17	A I don't understand what you're asking.
18	Q You didn't exclude welders from shipyards
19	because you were studying Parkinsonism? I misspoke,
20	I'm sorry.
21	A That was the original study design when they
22	were trying to study lung cancer. They excluded them
23	because they didn't want people exposed to asbestos in
24	their study and they were concerned that that would be
25	a confounding effect of any association with lung
1	

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	Page 230
1	cancer.
2	Q If you had selected a cohort or had your
3	druthers, would you include shipyard welders?
4	A I, I would try to include as many people as
5	I could. I'd want to get the largest cohort I could
6	find.
7	Q Is it a limitation on your study that it
8	does not include shipyard workers or welders?
9	Excuse me?
10	A Yeah, I don't, I don't know if I would call
11	it a limitation. It's just you I mean, we the
12	study, the original study was designed to look at
13	welding fumes and the health effects of welding fumes,
14	so people in the study are exposed. And we're able to
15	get information on levels of exposure by duration of
16	work, and when we looked at duration of work we didn't
17	find any effect. So I, you know, I'm not sure.
18	Q Have you ever been to a shipyard where
19	welders are welding?
20	A I have not, no.
21	Q Have you ever been into any of these
22	factories or plants that were the subject of this
23	study to see where welders were welding?
24	A No.
25	Q Do you know what any of these factories or
1	

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-	Page 231
1	plants do or did?
2	A No, I don't.
3	Q So do you have any understanding or
4	appreciation whatsoever as to whether or not the
5	people engaged in whatever welding activities they
6	were engaged in in Denmark is remotely resembling what
7	welders do in shipyards, let's say, in the United
8	States?
9	A I have no knowledge one way or the other.
10	Q Okay. Do you have any idea as to whether or
11	not these welders in your study have anything similar
12	in their exposure to welding fumes as, say, welders in
13	the construction trades in the United States?
14	A No, I don't know.
15	Q So we don't know what they're welding in
16	your study, do we?
17	A Correct.
18	Q And we don't know under what circumstances
19	or conditions, do we?
20	
21	Q We do know it's in factories?
22	
23	Q And factories generally have superior
24	
25	places, do they not?
1	to the control of the

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	Page 232
1	MR. SCHACHTMAN: Objection to form and
2	foundation.
3	A I don't know that. I didn't visit the
4	factories.
5	Q Would you agree with me that, generally
6	speaking, the Danes are considered to be and have been
7	more aware of occupational health effects than the
8	U. S.?
9	MR. SCHACHTMAN: Objection; foundation.
10	A I, I don't know. One of the beauties of
11	this study, we had information on welders back in the
12	Sixties and Seventies when, when those conditions
13	were when the, when the levels were higher of
14	welding fumes in the factories and things like that.
15	Q And those would be the older welders, right?
16	A Yeah.
17	Q And did they smoke more?
18	A They smoked the same as the general
19	population.
20	Q But did the older welders smoke more than
21	the younger welders?
22	A That I don't know.
23	Q Is that information you sought to ascertain
24	for the one-tailed study?
25	A We looked at smoking overall in the

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	Sand files of the sand files
	Page 233
1	population.
2	Q Did you attempt to ascertain whether the
3	older guys smoked more than the younger guys?
4	A I'm not sure why we would do that.
5	Q I understand you might not know why you'd do
6	it, but did you?
7	A No, we did not.
8	Q Okay. Now, in your study, as I understand
9	it, you had seventy-four companies that remained
10	representing sixty percent of all the stainless steel
11	welders in Denmark; am I right?
12	A Yes.
13	
14	than five stainless steel workers, right, welders?
15	A Mind you, I didn't do any of this. This was
16	data already collected by Hansen.
17	Q Right.
18	
19	Q All right. And do you have any
20	understanding based on your experiences as to whether
21	
22	
23	A I don't know if that's true or not in
24	
25	Okay. What effort, if any, did you
-	

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	Page 234
1	undertake when you were doing this study in 1986
2	excuse me, in 19 no, you're not, you're in 2004.
3	He was in '96. I'm sorry.
4	A Yeah.
5	Q when you were undertaking the study in
6	2004 to ascertain where the other forty percent of the
7	stainless steel welders in Denmark were?
8	A No.
9	Q Would that have been one of those things
10	that would have been closer to the dream study?
11	A The study was based on an established
12	cohort, so we used the information that was already
13	available.
14	Q This is the cohort of convenience?
15	A This is this is the Hansen cohort.
16	Q Right. But it was convenient, right? There
17	it was.
18	A It was convenient for us, not for him. It
19	was a lot of work for him.
20	Q I understand. And you all chose not to
21	build on it?
22	A Correct.
23	Q Do you know whether or not the other forty
24	percent were shipyard workers?
25	A I don't know who they were.
1	

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	Page 235
	there was a decision to
1	·
2	include mild stainless steel as opposed to just all
3	stainless steel?
4	A I don't know why.
5	MR. SCHACHTMAN: Excuse me. Did you say
6	mild stainless steel?
7	MR. CROSBY: I'm sorry, yes, I think I did.
8	Mild steelworkers, I'm sorry. Thanks.
9	MR. SCHACHTMAN: We're all getting a little
10	tired.
11	MR. CROSBY: Yes, and I'm
12	BY MR. CROSBY:
13	Q Now, let me ask you this. When it comes to
14	your efforts to ascertain job description, what all
15	did you do?
16	A We used the questionnaire information.
17	Q And the questionnaire information, did it
18	supplement, or did it supplant the National
19	Supplementary Pension Fund Data?
20	A Yeah, the National Supplementary Pension
21	Fund was used to tell my understanding of the
22	Hansen study, was used to identify companies where
23	welding was performed, and then they were able to
24	determine welding departments, and from those they
25	administered questionnaires, and from the

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	Page 236
1	questionnaires they identified welders.
2	Q Did you use any of the data from any
3	governmental agency to assist in ascertaining that a
4	person was correctly identified as a welder?
5	A The Hansen study did.
6	Q Did you all?
7	A No.
8	Q So did the Hansen study use both the
9	questionnaire and governmental registries?
10	A Yes.
11	Q And did the Hansen study make any
12	determinations or offer any observations with respect
13	to how comfortable they were with respect to the
14	classification of those who were known as welders?
15	MR. SCHACHTMAN: Objection to form.
16	A Would you please repeat the question?
17	Q In the Hansen paper
18	A Umh-humh.
19	Q did they make any comments or
20	observations with respect to their comfort level that
21	welders were properly identified as to occupation?
22	A I I'm not sure what the Hansen paper
23	commented on that.
24	Q Have you read the Hansen paper previously?
25	A I've read it previously, yes.

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	Page 237
1	Q Have you read any Hansen paper relating to
2	this cohort other than the one that is marked as
- 3	Exhibit 9?
4	A No, I haven't.
5	Q What weaknesses or limitations are there in
6	your study?
7	A I would say one limitation is that we don't
8	have information on welding after 1986, that's when
9	the welding information ended. But we did have enough
10	information to classify people as welders.
11	Another I don't know if it's a
12	limitation, but we used using the hospitalization
13	rates of Parkinson's disease, you know, we couldn't
14	look at mild forms of Parkinson's. But that didn't
15	bias the study because we were able to look at
16	hospitalization rates for both welders and the
17	background population. So everyone disease was
18	ascertained similarly for everyone in the study.
19	Q Any other weaknesses or limitations?
20	A There was some more information, specific
21	information on welding, but the number of people with
22	Parkinson's disease was too small to really look at,
23	look at that information.
24	Q Could you elaborate on that a little bit?
25	I'm not sure I'm following
1	•

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	Page 238
1	A Yeah. Let me
2	Q what you're saying there, I'm sorry.
3	A Do you mind if I look in the paper?
4	Q Oh, no. Listen, this is really an open-book
5	test. I want to know
6	A Right.
7	Q what you do know.
8	A Umh-humh.
9	Q And I want to know your opinions. I guess
10	what I do at times when I try to sort of go back to
11	some of my questions is I'm trying to get answers to
12	my questions as well, but I really do want to know
13	what you know.
14	A Okay.
15	Q And how you know it and what your opinions
16	are.
17	A Okay. Right.
18	In terms of welding characteristics, we
19	didn't, we didn't have industrial hygiene data to
20	actually determine the level of exposure to the
21	individuals in the study. But as I mentioned
22	previously, we did have kind of a proxy to that with
23	the duration of work.
24	Q Well, is that what you mean by the number of
25	Parkinson's disease or Parkinsonism was too small to

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	Page 239
1	ascertain the different types of welding in fact? Or
2	did I misunderstand what you said about that?
3	A No. It's when you start categorizing the
4	individuals into different categories, you start
5	ending up with so many categories that you have only
6	one person or two people in a category and it's
7	difficult to draw any conclusions based on just one
8	case or two cases.
9	Q Does that get back to power?
10	A It gets back to study size.
11	Q I mean, a population of ten thousand people
12	with a thousand people with a disease would be more
13	significant, would it not, than a study of ten people
14	and one person with a disease?
15	MR. SCHACHTMAN: Objection; foundation.
16	Q Generally speaking?
17	A It depends on what your disease is, yeah.
18	But I feel we had pretty good power. We were able to
19	exclude risk greater than fifty percent, so that's,
20	that's pretty good. And our point estimate actually
21	showed a, no association at all. Actually, a slight
22	negative association, nonstatistically significant
23	negative association with welding.
24	Q Have you told me all the weaknesses?
25	A All that I
l	

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· <u> </u>	Page 240
1	Q What would be the result of the weakness or
2	limitation of not having the welding level information
3	after 1986, what would that be?
4	A I'm not sure because I don't have the
5	information.
6	Q Do you know if it biases toward the null?
7	A I don't know which way it would bias it.
8	Q Using hospitalization, which prevents or
9	limits seeing mild Parkinson's disease or
10	Parkinsonism, what, if anything, will that have on the
11	study and the conclusions?
12	A The only concern that it would have on the
13	study is if hospitalization rates are ascertained
14	differently in the welders and in the general
15	population, and that wasn't done. Their
16	hospitalizations were ascertained the same way for all
17	groups.
18	Q So then, if I'm understanding your
19	hypothesis, your hypothesis is that all people,
20	welders or not, will be suffering from mild or early
21	onset Parkinson's disease or movement disorders at the
22	same time and at the same rate?
23	A No, no. I'm just saying that we couldn't
24	pick those up.
25	Q All right. So if there is in fact an

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Page 241 increase incidence of Parkinsonism or movement 1 disorders in welders at a younger age, at an early age 2 of onset, let's say, at a mild level that does not 3 cause hospitalization, then it won't get picked up, 4 will it? 5 Right, our study would not be able to pick Α 6 The problem is trying to figure out what the 7 comparison or background population rates would be in 8 that type of study. 9 But they wouldn't be in the hospital Q 10 records --11 Right. Α 12 -- because they're not going? Q 13 Right. A 14 But what you've got there is if there is an 15 Q increased incidence of early onset or even middle-age 16 onset of Parkinsonism or movement disorder symptoms 17 that doesn't trigger hospitalization in welders, it 18 won't be picked up by this study? 19 Right, that was not, not the goal of this Α 20 21 study. The goal of this study, and -- well, Q Right. 22 you tell me what was the goal of the study. 23 To look at the rate of hospitalizations and 24 other neurodegenerative diseases in welders. 25

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	Page 242
	a this is mothing to full-blown
1	
2	Parkinsonism and fully ascertainable neurodegenerative
3	diseases?
4	A Yes.
5	MR. SCHACHTMAN: Objection to form and
6	foundation.
7	Q You make the statement on Page 5 at the
8	bottom: Information on all employees with respect to
9	name - this is the last sentence - name, unique
10	personal identification number, PIN, company tax
11	number, and date of start and end of each employment
12	is computerized and retained even after a person
13	retires or died.
14	A Umh-humh.
15	Q And the data in this registry, being the
16	National Supplementary Pension Fund Registry, is
17	regarded as complete.
18	A Yep.
19	Q By complete do you mean accurate and
20	reflective of occupation, or do you mean just they
21	finished the work?
22	A No. We mean that any information any of
23	this type of information is recorded in this registry.
24	Q Okay. So it would be reliable and give you
25	good data?

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	Case 1:03-cy-17 000-rivie Becamen
	Page 243
1	A Absolutely.
2	Q Did Doctor Hansen use that same system?
3	A Yes. Yeah.
4	Q Is that the, sometimes called the ATP
5	registry or company records? Well, ATP registry, do
6	you know?
7	A Where are you looking? I'm sorry.
8	Q I'm looking at the Hansen paper.
9	A Okay.
10	Q On Page 377, at the bottom.
11	A It appears that's, that's one of the
12	systems, yeah, one of the registries.
13	Q And they refer to the records from the
14	Public Supplementary Pension Fund as the ATP?
15	A Yes.
16	Q And that's the one you say is complete?
17	A Yes.
18	Q And does he say after that sentence,
19	beginning at the last part of 377: As many as forty-
20	three percent of the workers employed in the involved
21	companies during the years '64 to '84 were identified
22	from the ATP records only?
23	A Umh-humh.
24	Q A drawback to the ATP registration is
25	imprecision of job title?
1	

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	Page 244
1	A Umh-humh.
2	Q Is that inconsistent with what you were
3	saying?
4	A No. That's why they sent out the
5	questionnaires, to, to confirm that they were welders.
6	Q But I understood that you said that that was
7	a complete, as in reliable, data
8	MR. SCHACHTMAN: Objection.
9	Q from the registry.
10	MR. SCHACHTMAN: Objection to form.
11	A Yeah, I'm sorry. I'm confused by your
12	question.
13	Q A few questions back I asked you if when it
14	says that the data from that registry is complete
15	meant that it was finished or if it was reliable.
16	A Umh-humh.
17	Q And I understood you to say that it was
18	reliable.
19	A Umh-humh. It's complete, yeah.
20	Q Didn't you say it was reliable?
21	A It was the registry was used, the ATP
22	he's calling it the ATP registry, was used, used to
23	identify areas in which people were welding. They
24	further supplemented that with a questionnaire to, to
25	capture the people who actually were welding in those

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	Page 245
1	areas.
2	Q Would you agree with his statement that
3	reliance on the ATP register or to the company records
4	seems to result in incorrect cohort ascertainment?
5	A My confusion there is I've never looked at
6	this registry, so I'm relying on what Doctor Hansen
7	did.
8	Q Right.
9	A So I've never gone in and looked at job
10	titles or anything in the registry.
11	Q So you're not really in a position under
12	oath to comment with respect to the reliability of the
13	welder classification for the people in the study?
14	MR. SCHACHTMAN: Objection.
15	A That's not true, no.
1.6	Q Okay. On what would you base it, then?
17	A The questionnaire data.
18	Q But you've not seen that, either, have you?
19	A I have not I have seen the summary data
20	from the Danes.
21	Q Did you have concerns about the long-term
22	exposed group and what that data may yield in terms of
23	person years
24	A I'm not
25	Q and exposure?

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	Page 246
1	A I'm not sure what you're referring to.
2	Q In your number of person years in the long-
3	term exposed group, is it small, in your population?
4	A I'll have to look.
5	(Witness reviewing document.)
6	A For people who worked more than ten years we
7	had about seventy-three thousand person years.
8	Q Right. In the general, big picture of
9	things, is that big, or small?
10	A It depends on what it's relative to. It's
11	almost it's more than the number of person years
12	for people who worked less than ten years.
13	Q Okay. Now, Doctor Hansen in his original
14	paper, as I understood it, did a follow-up to randomly
15	sample the classification of welders, not only by
16	questionnaire, but by interview. Are you familiar
17	with that?
18	A No.
19	Q I'll be quick on this.
20	I think I asked you, the primary diagnosis
21	is the only one you all used, right?
22	A Yes.
23	Q And you don't know if that was on admission
24	or discharge?
25	A I don't know, right.

EX 5-246

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	Case 1.00 of 11 ood state
	Page 247
1	Q Okay. And you all only used first-time
2	hospitalization?
3	A Right.
4	Q Okay. So if somebody's first time to go to
5	the hospital was a car wreck and their second time was
6	to go because of Parkinson's disease, you all would
7	have the car wreck for that welder?
8	A No, no. The first time that the
9	hospitalization was due to Parkinson's disease, that
10	was it.
11	Q Now, what about for those who didn't have
12	Parkinson's disease?
13	
14	A I'm not sure what you're asking about those.
15	
16	without Parkinson's disease as to what their first
17	hospitalization was?
18	
19	Q I understand it might not have been a goal.
20	I'm just asking if you did it.
21	
22	Q Did you do any analysis as to the hospital
23	records of nonwelders?
24	A Yes.
25	Q And what was that analysis?
Ì	

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1	A We looked at the first hospitalization for
2	Parkinson's disease and the other diseases of interest
3	in our paper for people who were not welders as well.
4	Q So if you were if you were a nonwelder
5	and your first hospitalization was a car wreck, that's
6	what you would record?
7	A No.
8	Q You wouldn't record anything?
9	A We were only interested if their the
10	hospital discharge said Parkinson's disease or one of
11	the other diseases.
12	THE VIDEOGRAPHER: We're going off the video
13	record. The time is 4:06 p.m.
14	(A short recess was taken.)
15	THE VIDEOGRAPHER: We are back on the video
16	record. The time is 4:21 p.m.
17	BY MR. CROSBY:
18	Q Briefly, Doctor, I think you were here when
19	we had a discussion off the record and counsel
20	explained that you were going to be basically called
21	to testify about this study which is not yet published
22	and may not be published at a point when there may be
23	a hearing or a trial, and that is the limit to which
24	you're going to be called. Is that your
25	understanding, too?

EX 5-248

	Page 249
1	A Yes.
2	Q And you're not going to comment on studies
3	of others, even the study by Doctor Russett?
4	A Correct.
5	Q Okay. Do you plan on commenting about
6	statements contained in either Doctor Wells' or Doctor
7	Louis' declaration?
8	A If, if they're specific to my study, yes.
9	Q Okay. Has anybody talked to you about what
10	testimony Doctor Garabrant or Doctor Goldwin or others
11	have given in this litigation with respect to your
12	study?
13	A I read Doctor Garabrant's deposition about
14	my study. Other than that, I haven't. I don't know
15	anything else.
16	Q I guess since what you're going to do is
17	come in and testify about your study and explain it,
18	I'd like to go ahead and hear it now. So feel free.
19	A The details on how we conducted the study?
20	Q And what the results are and
21	A Okay.
22	Q what you believe it shows and what you
23	would tell a court or a jury
24	A Umh-humh.
25	Q if the lawyer said tell us about your

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	Page 250
1	study and what you did and what it shows.
2	A Okay. In our study we looked at people who
3	worked in the welding industry. We ascertained
4	information on about twenty-seven thousand people.
5	From those people we were able to identify people who
6	worked in welding departments, and the people who
7	worked in welding departments we administered a
8	questionnaire, and from the questionnaire we
9	identified between six and seven thousand people.
10	Q Let me interrupt you just a second.
11	A Umh-humh.
12	<u>Q</u> You're saying that we administered a
13	questionnaire. You all didn't administer a
14	
15	A I did not personally, right. I'm talking
16	
17	Q But none of the collaborators on your study
18	administered a questionnaire either, did they?
19	
20	
21	
22	Q Who was on your study that's on the '86
23	
24	
25	Q And was he involved in the questionnaire

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	Page 251
1	aspect?
2	A I'm not sure exactly what his role was, and
3	I'm not sure if it was a him or a her.
4	Q Okay. So I take it you haven't met that
5	doctor?
6	MR. SCHACHTMAN: Axle. We just call him
7	Axle.
8	Q Skytthe, however it's said.
9	A No, I have not met him.
10	Q But he did that, or she did that, or the
11	doctor who is a Ph.D. doctor did that back in '86?
12	A Yes.
13	Q Okay. So what I want to try to do is keep
14	it clear as to what you all in your group did for your
15	particular undertaking.
16	A Okay.
17	Q Okay?
18	A Okay.
19	Q So go ahead, though, please. I'm sorry.
20	A All right. So after we assembled the
21	cohort, then, of about twenty-seven thousand people
22	who worked in the welding industry, we linked them
23	we didn't link them, though, the National Board of
24	Health and Welfare linked them to the hospitalization
25	registry, the mortality registry, the immigration

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1	registry, to ascertain hospitalizations due to
2	Parkinson's disease. The National Board of Health and
3	Welfare also determined the rates of hospitalizations
4	for Parkinson's disease among the general population.
5	Then using standardized methods we
6	calculated SHRs, which is standardized hospitalization
7	rates, to see if welders were hospitalized more
8	frequently for Parkinson's disease than people in the
9	general population. And our study found that in fact
10	there was no statistically significant increase risk
11	in hospitalizations for Parkinson's disease for
12	welders.
13	Q Okay. Now, is that what you would basically
14	say
15	A Basically, yes.
16	Q if you had an opportunity?
17	And let me ask you, you have twenty-seven,
18	in round numbers, twenty-seven thousand welders,
19	correct?
20	A No. It was about six thousand. There were
21	about twenty-seven thousand that were in the industry.
22	Q Right. Twenty-seven thousand in that
23	industry overall in some twenty-odd facilities?
24	A Whoever was in the retrospective, whoever
25	was in the Hansen cohort.

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	Page 253
1	Q But is your twenty-seven thousand people the
2	same twenty-seven thousand people that are in Doctor
3	Hansen's other than the loss to follow up by either
4	immigration or death?
5	A Umh-humh.
6	Q Or does your twenty-seven thousand pick up
7	people that were not in Doctor Hansen's twenty-seven
8	thousand so that, let's say, for instance, five
9	hundred people that were in his have died or left the
10	country, was it filled back up with five hundred new
11	people that entered the trade?
12	A Umh-humh. No, no. We only used his cohort.
13	Q And so your six thousand or so welders would
14	be the same six thousand or so welders that he saw
15	except for those that have left Denmark or died?
16	A Yeah. Six thousand, one hundred and sixty-
17	three.
18	Q Do you remember how many he how many
19	welders he had?
20	A No. But I can look in the paper.
21	Q That's all right.
22	A Okay.
23	Q Did you notice any trends in your study?
24	A Trends in?
25	Q In incidence of Parkinson's disease or

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1	Parkinsonism or the diseases that you studied.
2	A Umh-humh. We did not notice any
3	statistically significant trends in our study.
4	Q Did you notice any trends that in your
5	opinion were not statistically significant?
6	A We noticed let me look at the data.
7	(Witness reviewing document.)
8	A I, I guess you could make a judgment about
9	increasing or decreasing point estimates. But none of
10	the trends that we looked at in Table 3 were
11	statistically significant.
12	Q Tell us what you mean by point estimates,
13	please.
14	A The SHRs.
15	Q And how do you mean that you see perhaps
16	seen a trend but is not statistically significant with
17	respect to SHRs?
18	A Yeah. You can look at the SHRs over the
19	different categories of the, of the variables, and
20	just look to see if they go up or down.
21	Q And what do you observe?
22	A For calendar time period, it appears that
23	the SHR goes up slightly.
24	Q Which table are you looking at?
25	A Table 3. I'm sorry.
1	

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	Page 255
1	Q Okay.
2	A It goes from zero-point-eight-zero to
3	zero-point-eight-eight. But the confidence intervals
4	overlap indicating that there's, there's really no
5	trend or increase in, in SHRs over time. You can look
6	at attained age and see that the point estimate goes
7	for less than sixty-five is one-point-one-three and at
8	sixty-five years or older is zero-point-seven-one.
9	But, again, none of these trends are statistically
10	significant.
11	Q Insignificant, or significant?
12	A They're, they're none of them are
13	statistically significant.
14	Q What would it have to have in it for it to
15	be statistically significant in your opinion?
16	A We calculate a trend test, and if the P
17	value for that was less than zero-point-zero-five,
18	then it would be significant.
19	Q So you would do a P value there?
20	A That's the only way you can do a trend test.
21	Q Was that done?
22	A Yes.
23	Q And what was the P value?
24	A It's reported for smoking, it's zero-point-
25	zero-seven.
1	

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1	Q Was there one done for any of the other
2	aspects of Table 3?
3	A Not formally because when you look at them,
4	just eyeball them, it doesn't really appear to be a
5	trend in any of the categories.
6	Q So let's look at the tables. Looking at
7	Table 1.
8	A Umh-humh.
9	Q Tell me, please, what you wanted to
10	demonstrate by including Table 1 in this paper.
11	A This just shows the characteristics of the
12	study cohort.
13	Q And what do you mean by the characteristics
14	of the study cohort?
15	A How many years they were followed up; the
16	number of people in each cohort; the mean years that
17	they were followed up; what their vital status was at
18	the end of our follow-up period; their year of birth;
19	and then their smoking status. Oh, I'm sorry. Also
20	at the bottom we have the age when Parkinson's disease
21	was onset.
22	Q And the smoking status portion?
23	A Umh-humh.
24	Q There are no data under employees in welding
25	companies and workers in welding department, it's all
1	

	Page 257
1	under total and then broken out into the sum under
2	welders?
3	A Right. The questionnaire was only
4	administered to people who they suspected were
5	welders, worked in welding departments.
6	Q And what is with respect to age at
7	Parkinson's disease onset have a ninety-five percent
8	confidence interval?
9	A No, I'm yeah. That's actually kind of
10	that's a range, I think.
11	Q Okay. Could you then tell me what those,
12	each of those numbers in each of those columns is
13	there to show?
14	A For? I'm sorry.
15	Q Age at Parkinson's disease onset, paren,
16	ninety-five percent, CI, closed paren.
17	A Right. That for employees in the welding
18	companies, that's the average age of onset for those
19	who had Parkinson's disease.
20	Q That's seventy people?
21	A No. Seventy years.
22	Q I'm sorry. Seventy years of age?
23	A Yeah. And they're between sixty-eight and
24	seventy-two.
25	Q All right, sir.

	Page 258
1	A And then for welding department it was
2	sixty-eight, between sixty-four and seventy-two. And
3	sixty-nine for people who responded to the
4	questionnaire. And then sixty-seven for welders.
5	Q Is it a mean age, then, or is that just
6	A Yeah, it's I think in the paper let me
7	look in the paper. I think we reported it as a mean
8	age. Right. It's the mean age.
9	Q So am I to gather from this - and please
10	help me if I'm incorrect
11	A Umh-humh.
12	Q that the mean age or, excuse me, the
13	range using the CI
14	A Umh-humh.
15	Q for employees in the welding companies,
16	someone could be as young as sixty-eight or as old as
17	seventy-two?
18	A Well, this is
19	MR. SCHACHTMAN: Objection to form.
20	A Well, yeah, this is, this is really kind of
21	a confidence interval, so it's the, it's the deviation
22	around, around the age.
23	Q What does that mean?
24	A That for welding departments specifically,
25	if someone we said that the mean age in the welding

	Page 259
1	department was seventy years old. So ninety-five
2	percent of the time if you resampled them, the age
3	would be between sixty-eight and seventy-two.
4	Q Yeah, but that's in welding companies, you
5	mean?
6	A Yes. I'm sorry, in at what age did
7	Q I thought you said employees in welding
8	departments, but seventy is
9	A Let me look at the table.
10	I'm sorry. Welding companies, yeah.
11	Q Is the text at variance to the table?
12	A No, I don't, I don't believe so.
13	Q All right. So I'm just trying to help you
14	before it's published if it is.
15	A Yeah, absolutely. I appreciate that.
16	Q So, then, that means that ninety-five
17	percent of the time under the confidence interval they
18	will be that age, but there could be five percent of
19	the time some of them would be younger than that or
20	older than that?
21	A Right. But the mean age is seventy.
22	Q Okay. And is that the way it was done for
23	all those ages in those categories?
24	A Right.
25	Q Person years, how did you calculate the

Page 260 person years? 1 Person years, for each individual was when Α 2 they entered the cohort, and we followed them until 3 either they immigrated, died, or developed Parkinson's 4 So we discounted the number of years for 5 each person and added them up. 6 And then how does it -- let's go to, I 7 guess -- this table - tell me if I'm wrong - does it 8 address any incidence of Parkinson's disease other 9 than telling us the age? 10 It doesn't. No, this -- no. Α 11 Okay. What table do we need to go to for Ö 12 13 that? Table 2. Α 14 And help me with what Table 2 shows. 15 0 Table 2 gives us the different disease 16 Α categories that we looked at; the number of 17 observations for the different disease categories, 18 Parkinson's disease, secondary Parkinsonism; and then 19 the standardized hospital rates; and the ninety-five 20 percent confidence intervals. 21 And what was that table presented for, what Q 22 would you want to show with that? 23 To see if there was an excess of any of the Α 24 diseases we looked at among welders, a statistically 25

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	Page 261
1	significant excess.
2	Q When you provided the first submission to
3	the journal
4	A Umh-humh.
5	Q it didn't have any confidence intervals?
6	A No, it did.
7	Q Were there places where it did not?
8	A No.
9	Q Well, in the questions or the comments by
10	the viewers, where it says in the text: I would also
11	be interested to see the exact P value rather than P
12	is greater than zero-point-one-zero.
13	A Umh-humh.
14	Q In your response you state: We have also
15	provided the confidence interval.
16	A Right.
17	Q Which leads me to believe that there was no
18	confidence interval.
19	A There was confidence intervals in the paper
20	before.
21	Q So is it your interpretation that this
22	reviewer simply ignored the confidence intervals?
23	A No. He was talking
24	MR. SCHACHTMAN: Objection to form.
25	A He was talking about the confidence

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		Page 262
1	intervals around age. But all the other measure	ements
2	had confidence intervals.	
3	Q So did you all add them as to age?	
4	A I'm sorry?	
5	Q Did you all have to add them as to the	e age
6	aspect?	
7	A Add?	
8	Q Confidence intervals.	
9	A We did add confidence intervals for a	ge,
10	yes.	
11	Q Now, in looking at No. 2, Table 2.	
12	A Umh-humh.	
13	Q Looking at Parkinson's disease, there	were
14	sixty-nine observed under employees and welding	
15	companies with an SHR of zero-point-nine and a r	
16	five percent confidence interval of zero-point-s	seven
17	to one-point-two, correct?	
18	A Correct, yes.	
19	Q For all welding exposed workers, there	
20	twenty-five observed with an SHR of one-point-ze	
21	confidence interval of zero-point-seven to one-p	ooint-
22	five, correct?	
23	A Right.	
24	Q And then you have another category of	
25	questionnaire, response status of welders, metal	L

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	Page 263
1	workers and nonresponders. Is that a breakout of the
2	all welding group?
3	A That's a breakout of people who were
4	submitted the questionnaire.
5	Q Were all of the people under all welding
6	exposed, second column, Table 2, submitted the
7	questionnaire?
8	A I believe so. I think the numbers add up.
9	Let me
10	(Witness reviewing document.)
11	A I believe so.
12	Q Okay. So these are subsets of Column 2?
13	A Yeah.
14	Q And as I understand the ninety-five percent
15	confidence interval with respect to the numbers that
16	are parenthetical
17	A Umh-humh.
18	Q does that mean that if you were to look
19	at this population or a similar population, for
20	example, under metal workers where there were eight
21	observed and an SHR of zero-point-nine, that there
22	was there is a five percent chance that it could be
23	less than zero-point-four or greater than one-point-
24	eight?
25	A I would agree.

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	Page 264
1	Q And there's a ninety-five percent likelihood
2	that it would hit somewhere in between those two?
3	A Right. But your best estimate is that it's
4	zero-point-nine.
5	Q But now, does that number get arrived at
6	by like averaging or a mean number? How do you all
7	come up with a number like where to put that zero-
8	point-nine? Did you do that yourself?
9	A No. It's a computer package that estimates
10	that number for us.
11	Q Okay. And whose computer did the estimating
12	for this study?
13	A All the analyses were done in Denmark.
14	Q And is that that SAS program you're talking
15	about?
16	A Absolutely, yeah.
17	Q How often do they update and change their
18	program?
19	A SAS, or
20	Q Yes.
21	A I don't know.
22	Q Would it have been was there a SAS around
23	back in 1997?
24	A Yes.
25	Q '96?

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			Page 265
	1	A	Yéah.
	2	Q	When Doctor Hansen did his first study?
	3	A	I'm not sure.
	4	Q	Do you know if he used the same program that
	5	you all u	sed?
	6	A	I, I have no knowledge if he did or not.
	7	Q	Would it make a difference?
	8	A	No.
	9	Q	Why is that, that you seem confident that it
1	0	would not	?
1	.1	A	Because they used the same statistical
	.2	formulas.	
1	.3	Q	What did you physically do that contributed
1	. 4	to this s	
1	.5	A	I wrote the paper and designed the analysis.
	. 6	Q	Okay. And how did you go about designing
1	.7	the analy	
1	.8		I looked at the type of information on the
1	.9	questionna	aire and the type of information we were
2	0	ascertain	ing, and I created the tables.
2	1	Q	Okay. And did you create the tables, or did
2	2 .	-	to write any programs, did you have to design
2	3	any formu	las to do any of the work that you did?
2	4	А	I had our statistician do the computations
2	5	for me.	
1			

	Page 266
1	Q Okay. But did you have to tell him or her
2	what computations to do?
3	A I gave him an outline of the table that I,
4	that I was interested in looking at, and I'm sorry,
5	she, and she was able to, to complete those for me.
6	Q So you didn't deal with any of the details
7	with respect to how the numbers were actually
8	generated?
9	A I did not do any of the programming.
10	Q And looking at Table 3 well, let me go
11	back to Table 2 for just a minute, I'm sorry. Table
12	2. If something was in your study that caused it to
13	bias toward the null by something like zero-point-five
14	to zero-point-eight, and you increased your range in
15	your ninety-five percent CIs by those numbers, would
16	it give you an approximation of your CIs?
17	MR. SCHACHTMAN: Objection to form.
18	Q Or would you have to recalculate the CIs
19	altogether?
20	MR. SCHACHTMAN: Objection to form.
21	A I'm sorry. I'm not sure what you're asking.
22	Q If there was something about your study that
23	created a bias toward the null to somewhere around
24	zero-point-five to zero-point-eight
25	A Umh-humh.

	Page 267
1	Q would you increase the range in your
2	confidence interval by those numbers?
3	A My understanding of bias is bias is an issue
4	of study design, it's not an issue of analysis.
5	Q Okay. So if Doctor Hansen was of the view
6	that there was an underestimation of relative risk
7	with respect to some aspect of this cohort, would that
8	have any impact in your view?
9	A I have no idea how that would impact the
10	study.
11	Q Okay. Would you look at Page 379, please,
12	sir, of the Hansen paper.
13	A Okay (complying).
14	Q And I guess it's somewhat like your group's
15	random sampling of hospital records. Do you recall
16	that Doctor Hansen did a random sampling of a hundred
17	and eighteen cohort members with respect to
18	occupation?
19	A I, I had no knowledge of that.
20	Q Okay. If you would look at Page 379.
21	A Okay (complying).
22	Q In the left column. And we will, the first
23	part is, expose your assessment in a historical cohort
24	study has an inherent possibility of introducing bias
25	because of the use of different sources of exposure

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	Page 268
1	data for living and deceased subjects.
2	A Okay.
3	Q Do you agree with that?
4	A Yes.
5	Q Did you have that issue to deal with in your
6	study?
7	A If it was in the Hansen study, it was also
8	here.
9	Q Okay. In this study all living cohort
10	members were asked to answer a detailed questionnaire
11	on lifetime exposures, and spouse and colleagues of
12	deceased subjects were interviewed using the same
13	questions. Is that the Danish questionnaire that we
14	have as Exhibit 1, or 3? I can't remember.
15	MR. SCHACHTMAN: I think it's 1.
16	A Yes.
17	MR. SCHACHTMAN: Or 3.
18	
19	
20	
21	cohort members who answered the questionnaire had
22	died.
23	A Umh-humh.
24	
25	using the same questions to validate the accuracy of

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Page 269 exposure information obtained from surrogate 1 2 responses. Α Umh-humh. 3 Comparison of answers showed a fairly high 4 Q level of concordance on smoking habits, spouses, and 5 the basic questions on occupational exposures. The 6 nonwelders were classified correctly, but the 7 sensitivity of correct, quote, welder, closed quote, 8 This misclassification classification was rather low. 9 might result in an underestimation of the relative 10 risk by a factor of at least zero-point-five to zero-11 point-eight in the exposed group in the present study, 12 the present study being Hansen 1996. 13 Umh-humh. 14 Α What, if anything, does that indicate to 15 Q you? 16 You know, actually, this is not surprising Α 17 I did a study of occupational exposures and 18 at all. looked at surrogate responses and people who had died 19 to see how reliable they were to what the actual 20 people reported, and they're not reliable at all. So 21 his finding is consistent with what's in the 22 literature, that the best information you can get 23 about occupations is from the individuals themselves, 24 surrogates just don't know. 25

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	Page 270
1	Q Okay. And what, if any, impact did it have
2	on his study or your study?
3	A Given that, I don't think it had any impact.
4	Q Okay. And with respect to this study by
5	Hansen, which would be your study, was there missing
6	data in surrogate interviews utilized?
7	A There were surrogate interviews utilized.
8	Q Do you agree with his statement here at the
9	bottom of the left-hand column: Due to the higher
10	proportion of missing data in the surrogate
11	interviews, the case referent analysis is expected to
12	result in estimates biased toward the null?
13	MR. SCHACHTMAN: Objection to form.
14	A I'm not I'm reading this out of context,
15	but I think he's referring to a different study, the
16	Lordson and Hansen study, it's a nested case reference
17	analysis.
18	MR. SCHACHTMAN: You have to read the
19	sentence above it to see what he's referring to.
20	MR. CROSBY: Let me show you what we'll
21	marked as Exhibit 10.
22	(Deposition Exhibit No. 10 was marked for
23	identification and was attached to the transcript.)
24	BY MR. CROSBY:
25	Q And where was the nested cohort taken from?
1	

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	Page 271
1	A Within the within this cohort.
2	Q Have you seen Exhibit 10 before, Lung Cancer
3	Mortality in Stainless Steel and Mild Steel Workers:
4	A Nested Case slash or dash, Reference Study?
5	A Yeah, I've not read this before.
6	Q So you don't or do you have an opinion or
7	view as to whether or not it would yield any
8	information with respect to any bias towards the null
9	in Hansen's cohort, which is also your cohort?
10	A Yeah, I have no idea how it would affect the
11	results.
12	Q If it affected it by point-five to point-
13	eight in a relative risk, would we, for example, take
14	Column 2, Parkinson's disease, observed twenty-five on
15	Table 2, and the SHR from one-point-zero with a
16	confidence interval, and if we add point-five would it
17	change the rate or the range from zero-point-seven to
18	one-point-two and from one-point-five to two-oh?
19	MR. SCHACHTMAN: Objection; form and
20	foundation.
21	A His, his statement was about lung cancer,
22	and this is Parkinson's disease. I'm not aware of any
23	incidence where you'd try to look at two different
24	diseases in that aspect.
25	Q Yeah. But his is also dealing with the fact

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	Page 272
1	that the information is not that reliable.
2	MR. SCHACHTMAN: Objection to form.
3	Q And it's from the same cohort, right?
4	MR. SCHACHTMAN: Objection; form.
5	A I disagree.
6	Q Why do you disagree?
7	A I believe the information is reliable.
8	Q Because?
9	A Given all the information we have from the
10	Danes, it's, it's we were able to identify who were
11	welders and who were not.
12	Q But isn't the person who was involved in
13	doing the first identification process expressing his
14	concern and doubts about that very aspect?
15	MR. SCHACHTMAN: Objection; form and
16	foundation.
17	A He's expressing doubts in one unique
18	situation.
19	Q But it says that it biases toward the null,
20	nevertheless, correct?
21	MR. SCHACHTMAN: Objection; form and
22	foundation.
23	A His statement says that it biases toward the
24	null, for lung cancer.
25	Q Well, lung cancer was diagnosed didn't

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	Page 273
1	they use the same system you all did?
2	A No.
3	Q What did they do?
4	A They have a cancer registry that started in
5	1945.
6	Q Oh. So they have a system that just
7	identifies that specific disease?
8	A Absolutely.
9	Q They don't have that for Parkinsonism, do
10	they?
11	A They don't.
12	Q And lung cancer, unlike a movement disorder,
13	that one, when you get diagnosed with it, that's going
14	to usually get primary diagnosis, top billing on it,
15	won't it?
16	A I don't know.
17	Q If you went to a doctor and you had a
18	cancer, would you think that if you were hospitalized,
19	that it would be the primary diagnosis?
20	A You know, I'm not a nosologist, so I'm not
21	sure how they would put it.
22	Q What is a nosologist?
23	A Someone who classifies diseases.
24	Q And, generally speaking, is a nosologist
25	someone like, who has an undergraduate degree?

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<u> </u>	Page 274
1	A I have no idea.
2	Q So you don't know about nosologists?
3	A I know they're important.
4	Q Is there anything in your study that in your
5	view indicates that you have any biases toward the
6	null as a result of the cohort you selected?
7	A I have no indications of that.
8	Q Is there anything in your calculations that
9	indicate that there is a bias toward the null in your
10	study?
11	A Not to my knowledge.
12	Q Or in the calculations?
13	A Not to my knowledge.
14	Q Is there anything in your study that in your
15	opinion indicates that any of your data are incorrect
16	or unreliable in any respect?
17	A No.
18	Q So in your opinion - and tell me if I'm
19	wrong, I'm sure you will - your study does a good job
20	of saying or determining exactly what you say it
21	determines, and that is that there is not an increased
22	incidence of hospitalizations of Parkinson's disease
23	by stainless steel and mild steel welders in Denmark?
24	
25	Q And do you agree with the last sentence

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	Page 275
1	before the conclusions? I take it you wrote it.
2	MR. SCHACHIMAN: Objection to form.
3	A Okay.
4	Q Well, let's since there was an objection,
5	let me back up.
6	At the top of Page 15
7	A Umh-humh.
8	Q exposure levels in the Danish industry
9	may have been higher in the 1950s and 1960s. That
10	follows a statement that says that you didn't know any
11	of the welding exposure levels for these workers,
12	correct?
13	A Right.
14	Q We don't know if they welded all day long or
15	if they welded just every now and then?
16	A Right.
17	Q And we don't know what the conditions were
18	when they welded?
19	A Correct.
20	Q Then the next is: The welders in our cohort
21	may have been less exposed because exposure levels are
22	lower in stainless steel welding and high level
23	exposure environments like shipyards were left out of
24	the cohort.
25	A That's what the statement says.
1	

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	Page 276
1	Q Okay. Did you write that?
2	A No.
3	Q Who wrote that?
4	A Doctor Bonde.
5	Q And then the next statement is: Therefore,
6	rates for PD found for welders in the present study
7	may not necessarily be representative for welders
8	exposed to higher levels of welding fumes and during
9	occupational conditions different from those in
10	Denmark. Did you write that?
11	A No.
12	Q Doctor Blot did?
13	A No. Doctor, I'm sorry, Bonde, B-O-N-D-E.
14	Q Oh, Bonde. So the portion dealing with
15	where does Doctor Bonde's portion start?
16	A Again, I'm assuming that he's the one that
17	wrote it. As I stated before, the Danish colleagues
18	submitted all their comments together. And I think
19	it's the bottom of Page 14, that paragraph there.
20	Q How many people have died from the time that
21	Doctor Hansen's study was published until you all did
22	yours?
23	A I have no idea.
24	Q What effort, if any, did you all undertake
25	to look at cause of death in those that died?
23	

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	Page 277
1	A That, that wasn't out an outcome that we
2	were interested in in our study.
3	Q Did you all undertake any effort to do a
4	follow-up to see whether any of those people who had
5	died had had a hospitalization for any of the diseases
6	that you were studying?
7	A No.
8	MR. CROSBY: Your Declaration in this, which
9	I will mark as 11.
10	(Deposition Exhibit No. 11 was marked for
11	identification and was attached to the transcript.)
12	MR. SCHACHTMAN: Do you have an extra copy
13	of the Lauritsen paper that you marked? If you don't,
14	I'll make a copy.
15	(Mr. Crosby handing.)
16	MR. SCHACHTMAN: Thanks.
17	MR. CROSBY: My friend just reminded me of
18	something. Do you have the proposal? I can't
19	remember what its number was.
20	MR. SCHACHTMAN: 5. The Danish proposal,
21	or
22	MR. CROSBY: The Danish proposal.
23	(Witness handing.)
24	BY MR. CROSBY:
25	Q This Declaration that you prepared that

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1	we've marked now as Exhibit 11?
2	A Umh-humh.
3	Q In Paragraph 3
4	A Okay.
5	Q it says: This large study of welders
6	with long-term follow-up provides evidence that there
7	is no moderate or strong association between welding
8	and measures of morbidity for Parkinson's disease,
9	Parkinsonism, and other neurological conditions.
10	Would you explain to me what that means in
11	just plain terms?
12	A Yeah. We looked at the hospitalizations,
13	the standardized hospitalization rates among welders
14	for Parkinson's disease, Parkinsonism, and other
15	neurological conditions, and none of them
16	MR. SCHACHTMAN: Hello. On the phone there,
17	if you could turn down your music, that would be
18	great.
19	A and none of them were statistically
20	significantly increased.
21	Q In your opinion, does your study conclude
22	that welding fume exposure does not cause
23	Parkinsonism?
24	A Our study concludes that people who worked
25	as welders are not at an increased risk for being

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	Page 279
1	hospitalized for Parkinson's disease.
2	Q So your study's limited to exactly what it
3	says in that portion we discussed at the very end?
4	A Yes.
5	Q Would it be fair to take it beyond that?
6	A Beyond the conclusions that we wrote, no.
7	Q Yeah.
8	Is there a pharmacological registry in
9	Denmark?
10	A Yes.
11	Q Is there one in Sweden?
12	A Yes.
13	Q So if you got these people's secret code
14	number and you want to, can you find out all the
15	prescriptions that they've had?
16	A Yes.
17	Q If someone had been diagnosed with a
18	movement disorder for which there is a medication
19	available and it's prescribed, would the Danish system
20	pick it up?
21	A It would, but only to a small once of
22	prescription database in Denmark is only in one
23	county, Aarhus County, which is one small section of
24	the country, it's not a nationwide registry, so we
25	wouldn't get all the information about all the welders

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	Case 1.05-cv 17 coo and co
	Page 280
1	in our study. And our registry only started in '89, I
2	believe.
3	Q Okay. And if you had that data, would it
4	help with doing an analysis of how many people, if
5	any, may have been missed by the hospital or a clinic
6	process?
7	A We can look to see who was prescribed
8	specific information or specific prescriptions.
9	Q And what about the Swedish pharmaceutical or
10	pharmacy registry?
11	A I believe that began either last year or is
12	
13	Q Are neuropsychological conditions codable
14	under the ICD?
15	
16	
17	Q Are any of those neuropsychological?
18	MR. SCHACHTMAN: Are you asking about
19	neuropsychological diseases, or
20	MR. CROSBY: Conditions.
21	MR. SCHACHTMAN: Conditions.
22	A Yeah.
23	
24	
25	diseases we were able to look for in the registry.

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	Page 281
1	Q Okay. Are any of those conditions, in your
2	opinion, consistent with the neuropsychological
3	diagnosis of ICD?
4	A I don't know.
5	Q Are there other neurological conditions or
6	diseases that can be caused by occupational exposure
7	that are not on your ICD list in the proposal?
8	A I have no idea.
9	(Mr. Gonzalez-Magaz left the deposition.)
10	Q Who came up with that list?
11	A Doctor Blot.
12	Q With respect to your Declaration
13	A Umh-humh.
14	Q when is the last time you reviewed it?
15	A Probably December.
16	Q Did you have any suggestions or changes at
17	that time?
18	A No.
19	Q Do you have any at this time?
20	(Witness reviewing document.)
21	A No.
22	THE VIDEOGRAPHER: I think now would be a
23	good time to change the tapes.
24	MR. CROSBY: Okay.
25	THE VIDEOGRAPHER: Here ends Tape No. 3 in

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	Oddo Nee et 17 ee
	Page 282
1	the deposition of John P. Fryzek, Ph.D. We are going
2	off the record. The time is 5:09 p.m.
3	(A short recess was taken.)
4	(Mr. Kelly left the deposition.)
5	THE VIDEOGRAPHER: Here begins Tape No. 4 in
6	the deposition of John P. Fryzek, Ph.D. We are back
7	on the record. The time is 5:17 p.m.
8	BY MR. CROSBY:
9	Q Doctor, your study that you've got in press,
10	does it exclude a relative risk of two for the
11	incidence of Parkinson's disease or Parkinsonism in a
12	population of welders exposed to welding fumes?
13	MR. SCHACHTMAN: Objection; compound.
14	A Our study excludes a relative risk of two
15	for the instance of hospitalization due to Parkinson's
16	disease in welders.
17	Q In Denmark?
18	A In Denmark.
19	
20	
21	population of welders in the United States?
22	
23	
24	relative risk of two or greater for Parkinsonism of
25	welders in the United States?
1	

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	Case 1.00-04-17 00	
		Page 283
1	А	No.
2		(Mr. Thompson left the deposition.)
3	Q	Welders anywhere?
4	Ά	For?
5	Q	Parkinson's disease, Parkinsonism.
6	А	It excludes a risk of two or greater for
7	Parkinson	's hospitalizations due to Parkinson's
8	disease i	n Denmark.
9	, Q	And that's it?
10	A	Yes.
11	Q	So as to relative risk for the incidence of
12	Parkinson	's disease or Parkinsonism of welders in the
13	United St	ates, it remains unaddressed in this study?
14		I'm not sure what the exposure levels of
15	welders a	re in the U. S. compared to Denmark, but if
16	they're s	imilar exposure, then it could exclude a risk
17	of two or	greater in the U. S. as well.
18	Q	But that would be limited to
19	hospitali	zations, wouldn't it?
20	А	Exactly.
21		Your study, even if exposures in the U.S.
22	are the s	ame as exposures in Denmark, does not exclude
23	a relativ	e risk of two or greater for the incidence of
24	Parkinson	's disease or the incidence of Parkinsonism
25	in welder	es exposed to welding fumes; is that correct?

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1	A It excludes the risk for hospitalization,
2	correct.
3	Q I'm not asking about hospitalization.
4	A Umh-humh.
5	Q So that word's not in my question.
6	A Okay.
7	Q So my question to you is does your study
8	exclude a relative risk of two or greater for the
9	incidence of Parkinsonism in a population of welders
10	exposed to welding fumes in the United States?
11	A No.
12	Q Does your study exclude a relative risk of
13	two or greater for any neurological condition in
14	welders exposed to welding fumes in the United States,
15	the incidence of that disease or condition?
16	A It looks at the incidence of
17	hospitalizations for those diseases.
18	Q Right. And I'm not asking about
19	hospitalizations.
20	A Right.
21	Q I'm asking about the incidence or the
22	occurrence of the disease.
23	A The study was not designed to look at that.
24	Q Is the Swedish study designed to do that?
25	A The Swedish study is still undergoing

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	Page 285
1	approval, so I'm not sure of the final design of that
2	study.
3	Q So if I asked a lot of questions about the
4	Swedish study, would that mean that it might all be
5	changed?
6	A Yeah.
7	Q Right after we leave the room, couldn't it?
8	A I, I have no idea yes or no.
9	MR. SCHACHTMAN: You could have a creative
10	input.
11	MR. CROSBY: I'm trying.
12	
13	
14	please? Actually, I think you were going to also
15	comment on Doctor Wells'; am I right?
16	•
17	
18	
19	about it. That's one of the purposes of this process.
20	A Okay.
21	Q Do you have Doctor Wells' report?
22	
23	Q Do you recall what it was that he had to say
24	about your paper with which you take issue?
25	A I don't recall specifics.

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	Case 1.03-cv-17 ood king
	Page 286
1	Q Well, while I'm looking for that, while you
2	haven't done a calculation with respect to power in
3	this 2004 Danish study for the industry, that is
4	something that you do customarily and from time to
5	time in other papers that you publish; am I correct?
6	MR. SCHACHTMAN: Objection; foundation.
7	A I have never published a power calculation
8	in any of the papers that I've written.
9	Q Do you recall whether or not Breslow & Day
10	address power calculations?
11	A I don't recall what they say.
12	Q Is that an authoritative work, the arc
13	monograph?
14	A What specific one are you asking about?
15	Q The one that you've cited in your paper. I
16	can't remember, is it your paper, or your Declaration?
17	I think it's your Declaration. The first one
18	(handing).
19	A Okay. Yes. This, this describes
20	epidemiological research analysis, yes.
21	Q And that's one of the things that you rely
22	on in performing epidemiological
23	
24	Q research and analysis?
25	A Yeah, it describes standardized techniques.
l l	

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	200
	Page 287
1	Q And is it reliable and authoritative in your
2	opinion?
3	A In my opinion, yes.
4	Q Are all of the works that you have listed as
5	attached to your Declaration reliable and
6	authoritative in your opinion? And I can't remember
7	them all. You might look. I'm not trying to
8	A Yeah. Yes, I agree they're all reliable and
9	authoritative.
10	MR. CROSBY: Do you happen to have a copy of
11	Wells?
12	MR. SCHACHTMAN: No. I actually never gave
13	him a copy of Wells.
14	MR. CROSBY: Oh.
15	MR. SCHACHTMAN: I mean we talked about what
16	Wells said, but I never showed him Wells.
17	
18	Q So is it your understanding, then, that your
19	concerns about do you have concerns about what
20	Doctor Wells was reported to have said about your
21	
22	
23	If you give me specifics I'll tell you if I agree or
24	
25	Q Well, if I can find the file folder where I
ı	

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Page 288 put it in. 1 MR. SCHACHTMAN: I've got it on my laptop, 2 if that helps. 3 Which one is it? MR. CROSBY: 4 He, too, has two MR. SCHACHTMAN: 5 Declarations, and I think we discussed the December 6 2004 Declaration. 7 MR. CROSBY: I only have one copy of that. 8 BY MR. CROSBY: 9 But this is a statement that is -- and see 10 if this rings a bell. And Fryzek -- am I saying your 11 name right? 12 You're saying it perfect. Α 13 Thank you. In Fryzek et al., 2004, the Ó 14 power to detect rate of occurrence of the number of 15 welders with PD under the alternative hypothesis, that 16 is, fifty percent, and a hundred percent larger than 17 the occurrence of the number of welders with PD 18 yielding five observed cases of PD are zero-point-two-19 two-six and zero-point-five-two-six respectively, the 20 power in Fryzek, et al. is quite low relative to the 21 large magnitude of the difference one is trying to 22 detect. 23 I'll give it to you, but, first, while it 24 was long, do you have it enough in your mind to know 25

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	Case 1.00 of 11 doc and
	Page 289
1	whether or not you agree with it or disagree with it?
2	A I need to read it.
3	Q Sure. I'll give it to you. But let me ask
4	you this.
5	The alternative hypothesis, what does that
6	mean?
7	A I need to see it in context to see what he's
8	saying.
9	
10	
11	
12	Q My question is have you now read that?
13	A Yes.
14	Q Do you agree or disagree with it, or do you
15	
16	
17	A I'm not clear how he did his power
18	
19	
20	calculation and his numbers are correct, what does
21	that mean to you?
22	A Doing a power calculation after you have the
23	-
24	
25	Q But what would it mean if you didn't have a

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- 1 confidence interval and what you saw was what is there
- 2 as to the power calculation, what would it mean to you
- 3 as to what your study would reveal if those were the
- 4 results of such a calculation?
- 5 A If, if I, I did a study I would, I would
- 6 never only present the power calculation. I'd present
- 7 the ninety-five percent confidence interval and the
- 8 point estimate.
- 9 Q Okay. But assume that you don't. Assume
- 10 you didn't do it, assume some other body, some other
- 11 human being did it and that's what they presented.
- 12 A Umh-humh.
- 13 Q If you saw that as the power calculation,
- 14 what would it mean to you as to the strength of their
- 15 results?
- MR. SCHACHTMAN: Objection to form.
- 17 A Without the, the point estimate and the
- 18 ninety-five percent confidence interval, it wouldn't
- 19 mean much to me at all.
- 20 Q Assuming that we have your point estimate
- 21 and your ninety-five percent confidence interval and
- 22 you have that power calculation, what does it tell you
- 23 about your study?
- 24 A With my study, with the point estimate and
- 25 ninety-five percent confidence interval, it actually

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tells you the magnitude of risk that you can detect the study, and that our study can actually exclude risks greater than one-point-five, and that our be	•
2 the study, and that our study can actually exclude	•
3 risks greater than one-point-live, and that our st	
4 estimate of what the risk is given the point estim	ate
5 is zero-point-nine.	
6 Q And does that power calculation in any v	ay
7 impact the weight to which one would give your	
8 numbers?	ļ
9 A Not at all.	
10 Q So what would the power calculation	
11 accomplish?	
12 A In my opinion, nothing.	
13 Q Why would anybody do it?	
14 A I don't know.	
15 Q It doesn't assist in assessing the stren	ıgtn
16 of the study?	
MR. SCHACHTMAN: Objection; form.	
18 A The confidence interval is a much better	2
19 measure of the strength association.	
20 Q I understand. But just like this gentle	
21 has a videotape and a digital machine, does it gi	<i>r</i> e
22 some kind of confirmation or clue that there is	=
23 something else going on or that the study is stro	ng as
24 new rope or that the study is weak?	
25 A If, if I saw a power calculation along	NICU

Page 292 the ninety-five percent confidence interval and the 1 point estimate, the power calculation would not offer 2 me any new information. 3 Okay. What if you had the point information 4 but no ninety-five percent confidence interval? 5 I can't imagine a case where that would be. Α 6 What if you had a P factor as opposed to 7 ninety-five percent confidence interval and the P 8 factor was zero-point -- greater than zero-point-one-9 zero? 10 P value? MR. SCHACHTMAN: 11 I keep saying factor, I'm sorry. P value. 0 12 Would that tell you anything? 13 Can you say it again? I got focused on Α 14 factor. 15 If there was a P value --Q 16 Umh-humh. Α 17 -- of greater than zero-point-one-zero --Q 18 Umh-humh. 19 Α -- and those power calculations and your Q 20 SHRs, what, if anything, would it reveal to you? 21 Well, that P value would be more powerful Α 22 because it was actually based on the data. 23 power calculations are based on some assumptions and 24 other calculations that I have no knowledge how those 25

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	Page 293
	rage 223
1	were created.
2	Q What assumptions would someone have to make?
3	A The estimate of the rate of the disease and
4	the population that you're studying and then the
5	background population.
6	Q And is that information
7	A And other
8	Q unavailable?
9	A Prior to a study it is. Prior to our study
10	of Parkinson's disease it was unavailable.
11	Q Okay. If he used your numbers from your
12	study, what would it tell you?
13	A You know
14	MR. SCHACHTMAN: Objection; foundation.
15	A Again, I'm just I have no idea how he's
16	done the calculations without telling me the formulas
17	he's used and the assumptions he's made.
18	Q Okay. Could I have that back?
19	A Umh-humh (handing).
20	Q That was from the
21	MR. SCHACHTMAN: December 2004.
22	Q December 2004, the last two sentences of the
23	paragraph numbered 17.
24	I think we both have copies of the
25	Declaration of Doctor Louis.

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C	Case 1:03-cv-1/000-KiviO Document 1352
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1	A Yeah. I don't have a copy with me, but I've
2	seen it.
3	MR. SCHACHTMAN: We made some copies
4	(handing).
5	Q Did you read all of Doctor Louis'
6	Declaration?
7	A No. Only the parts that pertained to me.
8	Q Do you recall any parts that pertained to
9	you other than what's contained in Paragraph 33 on
10	Pages 23 and 24
11	A No
12	Q and Page and Paragraph 35, did you
13	look at Paragraph 35 on Page 25?
14	A Yeah.
15	Q Let's look at that one first, because it's
16	sort of the Paragraph 35.
17	A Paragraph 35, okay.
18	Q One study, paren, Fryzek, unpublished, paren
19	closed, uses a cohort design which is its major
20	strength, but the study also has several serious
21	weaknesses. As enumerated above, these increase the
22	likelihood that the study makes a type one error.
23	What is a type one error?
24	A The type one error is that if you find
25	the likelihood that the positive results you found is,
- 1	

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	Page 295
1	is actually not positive, a false positive.
2	Q Do you agree with that statement?
3	A No.
4	Q Why do you disagree?
5	A Because we didn't find a positive
6	association.
7	Q And with respect to Paragraph 33.
8	A Okay.
9	Q Do you have a general observation about the
10	comments made in Paragraph 33?
11	A I don't have a general observation.
12	Q Okay. And starting with that, it says: In
13	a recent study by Fryzek, paren, unpublished, closed
14	paren, of a cohort of Danish welders, some of whom
15	developed PD, the author studied the risk of
16	hospitalization for PD among welders compared to the
17	risk of hospitalization for PD in the Danish
18	population. The major strength of this study is its
19	cohort design. The authors conclude that the rates
20	for hospitalization for PD were not elevated among
21	welders. The study is problematic for the following
22	reasons. No. 1: First they studied rates of
23	hospitalizations for PD rather than rates of
24	occurrence for PD.
25	Do you agree with that, that that's a

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	Page 296
1	problem?
2	A I don't agree it's a problem, but I agree
3	that's what we did.
4	Q Okay. Would the study be better if it could
5	be designed to detect occurrences of PD as opposed to
6	hospitalizations?
7	A I'm not sure.
8	Q Okay. Well, you were using
9	hospitalizations, I guess, as an effort for some form
10	of a surrogate for occurrence, right?
11	A Right.
12	Q The problem with hospitalizations with the
13	surrogate is that it doesn't pick up the early cases,
14	right?
15	
16	
17	A I'm sorry. Yes. I'm sorry.
18	Q It's getting late, we're all forgetting it.
19	I'm sorry.
20	
21	Q Are you too tired to go ahead and
22	A No, I'm okay.
23	Q All right. Do you agree that this then
24	the study would probably only assess severe cases of
25	5 PD?
1	

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Γ	Page 297
	11 12 agoss hospitalizations of PD.
1	armon with his rationale to
2	Q Okay. Do you agree with his last
3	individuals sixty-five and older supports his position
4	
5	that it was assessing only severe cases? A I, I have no knowledge what he's basing his
6	A I, I have no knowledge what he s success
7	statement on.
8	Q Well, do you agree that what he provides
9	there is confirmation for his view that it's assessing
10	severe cases is a valid and rational confirmation
11	methodology?
12	A I don't see that he has any estimates of
13	Parkinson's disease in Denmark. So I don't know.
14	Q Well, isn't he using your figures, in the
15	first portion?
16	A Right. But he's comparing it to populations
17	in New York and Spain.
18	Q And so is that not cricket?
19	A Pardon?
20	Q Is that not cricket, that's not legitimate
21	or fair?
22	A Diseases vary across populations.
23	Q From one country to another?
24	A From one geographic location to the next.
25	Q Second, they excluded shipyard workers, a

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(Case 1:03-CV-17 000-RMO
	Page 298
1	group of individuals who have potential heavy exposure
2	to manganese through welding, creating a second
3	systematic bias. Do you agree with that?
4	A No.
5	Q You don't agree that it creates a systemic
6	bias?
7	A No.
8	Q Did it create any kind of issues,
9	limitations, or weakness?
10	A It limited what we could say about
11	hospitalization of Parkinson's disease for shipyard
12	workers.
13	Q And, third, is they showed that smoking was
14	an important protective factor for PD. Did you all
15	include smoking as a co-variant in the statistical
16	model?
17	A We looked at the effect modification of
18	smoking and we did a stratified analysis.
19	Q Did you include smoking as a co-variant in
20	your statistical model?
21	A By doing a stratified analysis we have
22	controlled for it.
23	Q So then he is wrong when he says that you
24	did not include smoking as a co-variant in your
25	statistical model?

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	Case 1.05-CV-17000-KWC Bootman
	Page 299
1	A I am not sure what statistical models he's
2	talking about.
3	Q So are you saying he's wrong, or are you
4	saying you're not sure what he's saying?
5	A I'm not sure what he's saying.
6	Q Now, he acknowledges that you stratified it,
7	correct?
8	A Right.
9	Q Do you agree with his assessment that the
10	risk of PD is nearly two times higher in welders than
11	in nonwelders, although the numbers are small in the
12	smoking population?
13	A No, I, I don't agree with that.
14	Q What did Table 3 show concerning that?
15	A That they're not statistically different.
16	Q On Table 3, nonsmokers, am I understanding
17	this correctly?
18	A I got it. Sorry.
19	Q Plaintiff's 8? It's the very last page.
20	A Okay.
21	Q It shows smoking, nonsmokers, your SIR is
22	one-point-nine-oh with a ninety-five percent CI of
23	zero-point-three-eight to five-point-five-four?
24	A Right.
25	Q That indicates that you're well beyond two,
-	

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	Page 300
1	doesn't it?
2	A No, no. What that's showing is that
3	Q It can be, I'm sorry.
4	A No well, it can be.
5	Q Okay.
6	A But what it's showing is that across the
7	categories of smoking the point estimates aren't
8	statistically different. You can see that by the
9	confidence intervals. The confidence intervals
10	overlap, and the numbers contain all the point
11	estimates. And also the trend is not significant.
12	Q Is the trend increasing with age?
13	A I'm sorry. The trend is for smoking, from
14	nonsmokers to former smokers to heavy smokers.
15	
16	
17	don't see a decrease in Parkinson's disease, a
18	
19	Q But is there a trend in age in the tables
20	that provide age?
21	
22	Q Is there an indication of a trend with
23	
24	A For, for age it appears that the rate of
25	hospitalizations for Parkinson's disease goes down for

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Page 301 those aged sixty-five years or older. 1 And do you know the age of the people who Q 2 had died? 3 We know the ages, yes. Ά 4 Did you include that in the table, in any of 5 the tables? 6 They're included in all the tables. Α 7 Okay. But do we know how many of -- what Q 8 percentage of those people who died had Parkinson's 9 disease? 10 No. Α 11 With a ninety-five percent confidence 12 interval that gives a range that is less than one but 13 greater than two -- or, excuse me, anywhere from less 14 than one to greater than two, such as the point-three-15 eight to five-point-five-four --16 Umh-humh. 17 -- does that indicate that the risk could be 18 as high as five times? 19 Yes, but it could also be as low as point-Α 20 three-eight. 21 Right. And with respect to the duration of 22 Q time spent welding table --23 Umh-humh. Α 24 -- less than ten years, is your confidence Q 25

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	Page 302
1	interval point-two-four up to two-point-two-eight?
2	A Yeah.
3	Q So it could be as low as point-two-four and
4	it could be more than doubled?
5	A Right.
6	Q And with respect to ten to twenty years, it
7	could be as low as point twenty-two or it could be
8	more than tripled?
9	A Yes.
10	Q More than twenty years it could be as low as
11	point-twenty-one and almost doubled?
12	A Right.
13	Q And for attained age less than sixty-five it
14	could be as low as point-three-six and as high as two-
15	point-six-three?
16	A Umh-humh.
17	Q And under your calendar time, seventy-seven
18	to ninety-two, as low as point-twenty-one and as high
19	as doubled?
20	A Yes.
21	Q So these this doesn't rule out a relative
22	risk of two overall, does it?
23	MR. SCHACHTMAN: Objection; form and
24	foundation.
25	A This looks at various categories of disease.

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	Page 303
1	Q And, generally speaking, would most of them
2	capture a two or greater
3	MR. SCHACHTMAN: Objection; form.
	Q in their confidence interval?
	MR. SCHACHTMAN: Objection; form. Actually
	and foundation.
	MR. CROSBY: Fine.
	A Some do and some do not.
	Q Did you agree that, in summary, this study
1	that I'm looking now at, Doctor Louis
1	A Okay.
1	Q this study has an important strength as a
	cohort study, but also several important limitations,
	failure to assess occurrence rather excuse me,
:	failure to assess occurrence of rather than
	hospitalizations? It's sort of a repeat of what we've
	talked about before. Has your opinion changed?
	A No.
	Q Doctor, since you're under oath, I'll ask
	you a question that I would probably ask you even if
	you were not under oath, but this way I know I'm going
	to get it straight.
	A Okay.
	Q Your study on the Danish welders
	5 A Umh-humh.
1	

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С	ase 1:03-cv-1/000-KiviO Document 1992
	Page 304
1	Q what's the part that you just are most
1	uncomfortable about insofar as its design or its
2	presentation or its results?
3	A There's no part. It's a very well designed
4	study. It follows standardized epidemiological
5	methods. The results are, are published in an
6	understandable manner. I think it's clearly written.
7	I have no concerns about it.
8	Q Okay. And you don't find anything about it
10	that makes you uncomfortable with any kind of flaws or
11	not intended biases, just biases that occur
	confounding factors, anything like that?
12	A No.
13	got your dream study here?
14	Q So have you got your around a land of the study. A I don't think I defined my dream study.
15	Q Well, I know, but you've got one here, as I
16	understand
17	A My dream study was a randomized controlled
18	trial, and I don't have that.
19	Q Well, I know. Unfortunately, while some of
20	the folks you work with, not your co-employees, but
21	that you consult for may engage in that activity. You
22	don't, do you?
23	A What activity? I'm sorry.
24	Q Exposing people to something without knowing
25	×1

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Ć	ase 1:03-cv-17000-KMO Document 1862-4 Thed 66/97/201
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1	what it's going to do to them.
2	A I
3	MR. SCHACHTMAN: Objection; foundation,
4	form.
5	A I have never done that, no.
6	Q Okay. And that's not a good thing to do, is
7	it? MR. SCHACHTMAN: Objection; form.
8	MR. SCHACHTMAN: ODJECTTA,
9	A It depends on the circumstances.
10	Q Well, if you're going to put a product out
11	on the marketplace, wouldn't you want to know before
12	you put it out whether or not it would cause problems?
13	A That's why clinic randomized clinical
14	trials are done.
15	Q Could you do something like that with
16	respect to welding rods?
17	A I have no knowledge of that.
18	Q Could you have done something with respect
19	to welding rods or welding fumes to find out whether
20	or not it was going to pose a hazard to the health of
21	human beings before you put them out in the general
22	marketplace?
23	A I have no knowledge of that at all.
24	
25	A Limited.

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	Cas	se 1:03-cv-17000-KMO Document 1862-4 Filed 08/07/2000
		Page 306
1		Q Are you familiar with the chemical
2		nonts of welding fumes?
1	<u>.</u> 3	A I can't name them for you, but I realize
1		thomo are some.
	4	and are you familiar that some of those
1	5 6	Q And are you remark to a potential health risk components of those fumes pose a potential health risk
	7	in human beings?
		T don't know what those components are.
	8	O If manganese, or manganese oxide is one of
1	9	those components, is manganese capable of causing
'	.1	diggage in human beings?
	L2	MR. SCHACHTMAN: Objection; form and
	13	foundation.
	14	A It's my understanding it depends on the
	15	circumstance of exposure.
	16	Q That's pretty much true of everything, isn't
	17	it?
	18	A Absolutely.
	19	Q It's kind of life.
	20	A I don't know.
	21	MR. CROSBY: Can we stop a second so I can
	22	look at what I've got and see if we can stop?
	23	THE VIDEOGRAPHER: We are going off the
	24	video record. The time is 5:48 p.m.
	25	(Discussion off the record.)

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Page 307 THE VIDEOGRAPHER: We are back on the video 1 The time is 5:57 p.m. record. 2 BY MR. CROSBY: 3 I can't remember, and I do apologize for 0 4 that, but it gets worse. So I'm tipping you off to that part. Had you read Hansen's 1996 paper before? 5 6 Which one was that? I'm sorry. Was that Α 7 the nest --8 Exhibit 9. Q 9 Was that the nested case control study? Α 10 Exhibit 9. Q 11 Let me see. There was one I read and one I Α 12 hadn't read. 13 MR. SCHACHTMAN: And, Doctor Fryzek, can you 14 identify it by exhibit number? 15 MR. CROSBY: It's Exhibit 9. 16 THE WITNESS: Yes. 17 I believe this is the one that I looked at. Α 18 BY MR. CROSBY: 19 Okay. 0 20 Yeah. Ά 21 Do you recall any other limitations Doctor 22 Hansen pointed out in his study with respect to his 23 cohort? 24 I -- to be frank, I haven't read that Α 25

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^	ase 1:03-cv-17000-KMO Document 1862-4 Filed 00/07/2000
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1	article for six months, so I don't know. I don't
2	recall.
3	Q Okay. Do you know if anybody had read this
4	article prior to the selection of that cohort for
5	purposes of the study that you undertook?
6	A I have no idea.
7	Q Looking at the Swedish study, I think you've
8	got a copy.
9	A Okay.
10	Q And I'm not going to be long, but I just
11	have a couple questions.
12	A Do you remember what number?
13	MR. SCHACHTMAN: 4.
14	Q 4.
15	A Okay. I have it.
16	Q Do you have an understanding as to the
17	purpose behind that study?
18	A Yes, I understand the purpose about the
19	study.
20	Q And what is the purpose? And what is the purpose?
21	A Is to look at the incidence of Parkinson's
22	disease and other neurodegenerative disorders in
23	Sweden, among Swedish welders.
24	Sweden, among swedten Q Is there a reason to expedite this study, or A the Danish study?
25	was there a reason to expedite the Danish study?
1	

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		Page 309
	1	A Not to my knowledge.
	2	Q Was there a reason to use the Danish cohort
	3	in order to get the study done more quickly than if
	4	formulated your own cohort, or do you know:
1	- 5	My understanding of the purpose of using the
1		Danish cohort, which I think is a good one, is that
1	6	that had gone through all the heavy work of
	7	the questionnaires, identifying the
	8	welding industries, and, and so we were able to build
	9	ss of that to examine Parkinson's disease.
	LO	a pother of the reasons that it would
	L1	Q And was another or allow the study to be performed quickly?
	12	T had no knowledge of how quickly the
	13	study needed to be done or not.
	14	by the know whether or not there is a sense
	15	of urgency with respect to the Swedish study?
	16	of urgency with respect to the sense of urgency is on A I don't know what the sense of urgency is on
	17	
	18	the Swedish study.
	19	Q You don't know one way or the other?
	20	A No.
	21	Q With respect to the documents that I've
	22	shown you today that were either received or generated
	23	by IEI or you, are those true and correct copies of
	24	the documents that you either received or generated or
	25	that IEI received or generated?

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	Ca	se 1:03-cv-17000-KMO Document 1862-4 Filed 06/07/2000
		Page 310
1	L	A You're talking specifically about the
2	2	exhibits?
3	3	Q Yes, sir.
,	4	A I believe so.
	5	MR. CROSBY: Okay. It's a question of
1	6	authenticity, is all I'm trying to cover.
	7	MR. SCHACHTMAN: I hope not, since I sent
	8	you the documents.
	9	MR. CROSBY: Well, okay.
1	0	BY MR. CROSBY:
	.1	Q Now, the Swedish study, you're going to
	L2	include what's the difference in the Swedish study
1	L3	and the Danish study?
	14	A One of the largest differences is there's
	15	more welders in Sweden. It's a larger country.
	16	ts there any particular subgroup of group
- 1	17	within the cohort that will be included that was not
- 1	18	harded in the Danish study?
	19	A Sure. People who worked in shipyards,
	20	people welders who worked in shipyards.
	21	people weiders may be people weight may be people
	22	of the study?
		a No
	23	Q Do you know why shipyards are included in
	24	
	25	this one?

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	Page 311
1	A I don't know why.
2	Q Do you think or do you have any opinion
3	or view one way or the other as to what, if anything,
4	it may do to have that in the study?
5	A I have no knowledge of how that will affect
6	the study results.
7	Q Any other differences besides increased
8	population and shipyard welders?
9	A It's a different population.
10	Q So it may well be that the results from
11	Swedish welders will vary from the results of Danish
12	welders?
13	A Yes.
14	Q Do you have any rationale for why that could
15	occur?
16	A I, I don't.
17	Q So just some human the human beings in
18	Sweden may be different than the human beings in
19	Denmark?
20	A I, I have no idea what the study results
21	will be before I do the study.
22	Q Okay. But, I mean, I guess you'd have to do
23	it because you think that there is a chance or
24	likelihood that it will be different?
25	A That's not, not the reason for doing it.
ì	

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С	ase 1:03-cv-1/000-KMO Document 1992
	Page 312
1	Q Okay. What's the reason for doing it?
2	A In epidemiology one way to look at or one
3	method to examine disease associations is to look at
	different populations and see if you find similar
5	rogults or not.
6	O And will these data yield results that will
7	be limited to population of welders in Sweden?
8	A Yes.
9	Q Will it be hospitalization?
10	A I'm not sure at this point how exactly
11	they're going to ascertain the outcome.
12	Q In this study the price has gone up, is
13	expected to be two hundred and ninety-seven thousand,
14	four hundred dollars, if it's like this is?
15	A I assume so, yes.
16	Q And what's the projected length of time for
17	this study?
18	A The proposal says six to seven months.
19	Q And are you all starting this from scratch?
20	A Yes. Q So you're going to start one from scratch
21	O So you're going to start one literate you
22	and be able to do it quicker than the one that you
23	where you already had a cohort of convenience? A No, it would be quicker.
24	n lang was the project in Denmark?
25	Q How long was the project

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4	Case 1:03-cv-17000-KMO Document 1862-4 Filed 00/07/2000
	Page 313
1	A I'm not sure of the exact length of the
2	project.
3	Q Okay.
4	A And I don't know how long this one will
5	take, either. We haven't, haven't started.
6	Q Have you read Hansen's 1982 publication
7	dealing with
8	A I don't know what you
9	Q No, okay.
10	Q No, okay. If one has a confidence interval in a paper,
11	does it make the number of cases and the number of
12	1 implement? Or does the Confidence
13	galgulate take that into considerate
14	A The confidence interval does take
15	consideration the population size.
16	is a set do that?
17	A larger population will give a more
18	sideman interval.
19	righten the range?
20	
21	tell you how much more accurate
22	to that it's within that range, or Will it bell
22	size percent confidence interval:
2	Tt will still be a ninety-live policy
	5 confidence interval.
2	



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	Page 314
1	Q Do the Danes consider sheet metal workers to
2	be welders, do you know?
3	Tim not sure.
4	A 1'm not 2 m
5	of Parkinson's disease or Parkinsonism from chemical
6	201702
7	- not familiar that there are any
) 8	A I am not ramife the stablished risk factors for Parkinson's disease other
	not active effect smoking.
10	than protective data that the protective data than protective data that the protective data that the protective da
1	require a control group?
	A All epidemiological studies have a
1	comparison group.
	O Can it is it just so one is the
	tam comes from the denominator?
	Tim corry?
	Te it that the numerator should come
	to mominator?
	A Yes.
1	and must the
	Q And Mass A No. I'm sorry, that's no, that's not
	n gorrect.
•	correct me, then, please.
	Tim not sure what you're asking.
	A 1'm not 1 m not 5 m not 1 m
Ì	

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Cos	e 1:03-cv-17000-KMO Document 1862-4 Filed 08/07/2006 Page 315 01321	
	Page 315	
1 2	A It depends on your study design. Q Can census data be a surrogate for control	A CONTRACTOR OF THE PROPERTY O
3	Q Can census data be a surrey	-
4 5	group? MR. SCHACHTMAN: Objection; form, overbroad.	and the second of the second o
6 7 8	A It depends what that data consists of. Q Is there anything about your paper or your opinions with respect to your paper that you have not	A STATE OF THE STA
9	expressed? A I think we've covered everything that I	Commence of the second
11 12 13 14	Q Do you have any opinions about what your paper demonstrates or shows other than what is expressed in the conclusions contained in the paper?	A MANAGEM PROGRAMMENT OF THE PRO
15 16	A No. Q Have you been in the military?	
17 18	A No. Q You had service in the Peace Corps, I think?	?
19	A Yes. Q Any other employment or affiliation with the United States Government or any state government or	е
21 22	institution other than that? A The State of Nebraska.	
23 24 25	Q And what was your A I was assistant professor at the University	7
1		ablandar, r.

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1	of Nebraska Medical School.
2	Q We talked about that.
3	A Yeah. Also, I received employment through
4	the National Cancer Institute; I had a grant as a
5	And I received funding lion one
6	University of Michigan, which is part of the State of
7	Wichigan in graduate school.
8	Q Have you ever had any employment within
9	
10	7 NO.
11	o so has your employment been limited to
12	brief overview of your employment.
13	gtarting with what year?
14	o college.
15	The college I worked as a research assistant
110	land nologist who was studying osteoporosis
1	Then I joined the Peace Corps and Workston
1	And after that I went to graduate school,
	t since then I have worked as an epidemiologist
1	and who have been your various emproyers.
2	togted on your CV.
	TH ic
	yeah.
	Nould you like me to state them again?
	No that's quite all right.
2	25 Q No, chao s 1

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Have you ever been terminated from any
employment?
A No.
Q Have you ever resigned under duress?
A No.
Q And are you still refusing to provide the
information with respect to your income from IEI
and/or Vanderbilt?
A Yes. MR. CROSBY: That's all that I have. Thank
MR. CROSBY: That's all that I have
you. MR SCHACHTMAN: Thank you, Doctor.
MR. SCHACHTMAN: Thank you, Doctor: THE VIDEOGRAPHER: Here ends the videotape
THE VIDEOGRAPHER: Here chas
deposition of John P. Fryzek, Ph.D. The number of
tapes used today was four. We are going off the
record. The time is 6:12 p.m. (Signature having not been waived, the
deposition of Jon Peter Fryzek was concluded at 6:12
p.m.)
ACKNOWLEDGMENT OF DEPONENT
Top Peter Fryzek, do hereby acknowledge
1, 00H 1000 1

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		Page 318			
1	that I have read and ex	amined the foregoing testimony,			
2	and the same is a true, correct and complete				
3	transcription of the testimony given by me and any				
4	corrections appear on the attached Errata sheet signed				
5	by me.				
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8	(DATE)	(SIGNATURE)			
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1	CERTIFICATE OF SHORTHAND REPORTER - NOTARY PUBLIC
2	I, Beatriz D. Fefel, Registered Professional
3	Reporter, the officer before whom the foregoing
4	proceedings were taken, do hereby certify that the
5	foregoing transcript is a true and correct record of
6	the proceedings; that said proceedings were taken by
7	me stenographically and thereafter reduced to
8	typewriting under my supervision; and that I am
9	neither counsel for, related to, nor employed by any
10	of the parties to this case and have no interest,
11	financial or otherwise, in its outcome.
12	IN WITNESS WHEREOF, I have hereunto set my
13	hand and affixed my notarial seal this 9th day of
14	February 2005.
15	My commission expires:
16	August 1, 2008
17	
18	
19	NOTARY PUBLIC IN AND FOR THE
20	STATE OF MARYLAND
21	
22	
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				Page 320
1			ERRATA SHEET	
2	IN	RE: In	Re: MDL Docket No. 1535	
3	RETURN	BY:		
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			Page 321
1		HEET (CONTINUED)	
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